Service
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Service Manual

Horizontal Frequency
30-80 kHz

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ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Revision List

Revision	Date	Revision History	Remark
A00	Nov.-25-2011	Initial release	TIAASL2E6WA1BNE
			TIAASL2D6WA3BNE

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected. Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

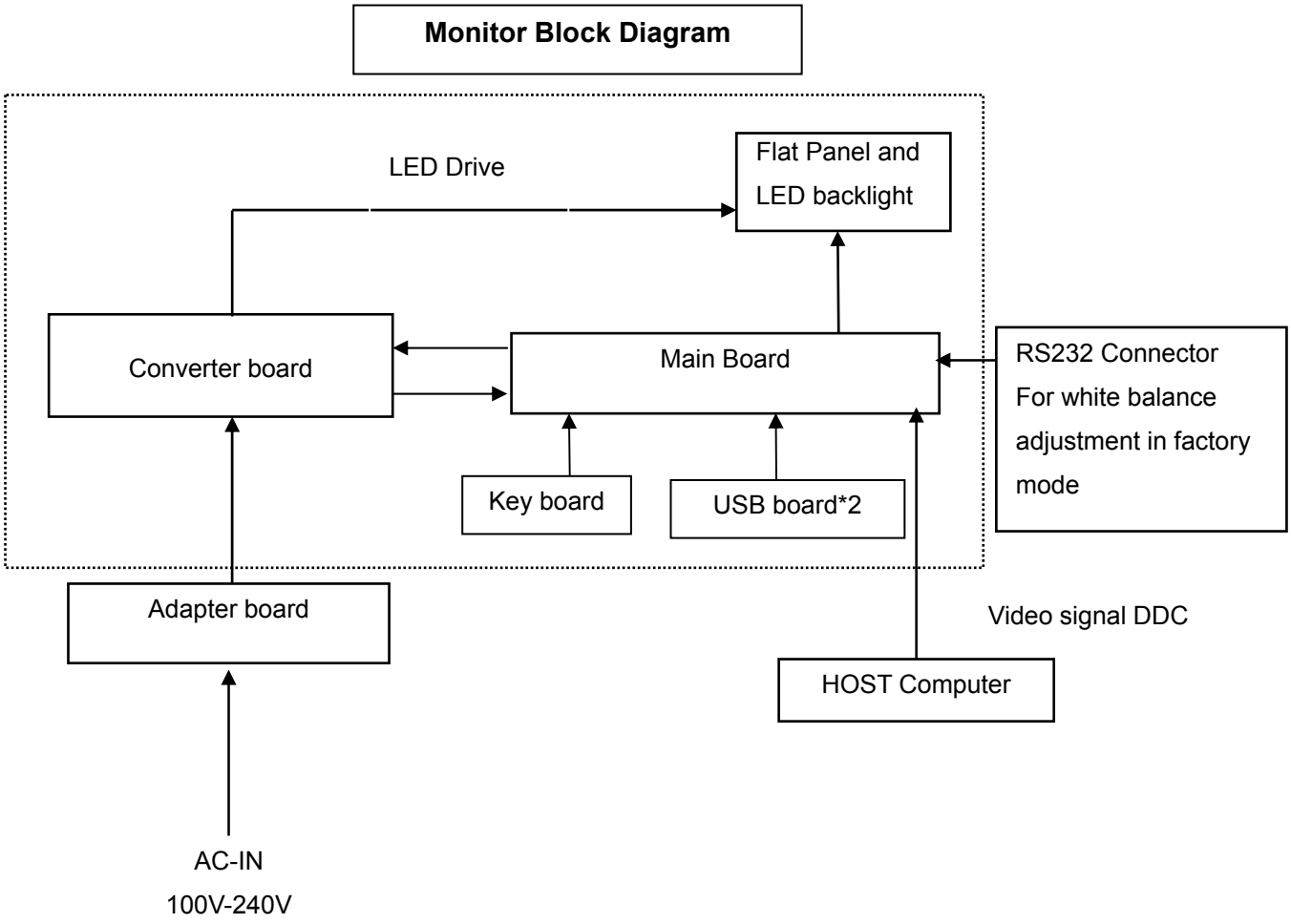
TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

1. Monitor Specifications

LCD Panel	Model name	e2236Vw	
	Driving system	TFT Color LCD	
	Viewable Image Size	547mm diagonal	
	Pixel pitch	0.248mm(H) x 0.248mm(V)	
	Video	R, G, B Analog Interface & Digital Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	148.5 MHz	
Resolution	Horizontal scan range	30 kHz - 80 kHz	
	Horizontal scan Size(Maximum)	476.64mm	
	Vertical scan range	55 Hz - 75 Hz	
	Vertical scan Size(Maximum)	268.11mm	
	Optimal preset resolution	1920 x 1080 (60 Hz)	
	Highest preset resolution	1920 x 1080 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-Sub 15pin & DVI-D	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240V～, 50/60Hz	
	Power Consumption	Typical < 42 W	
		Standby < 1 W	
	USB Downstream port (A type)	To USB device, loading < 100mA	
	off timer	0~24hours	Select timing to turn off the monitor.
Physical Characteristics	Connector Type	15-pin Mini D-Sub & DVI-D	
	Signal Cable Type	Detachable	
	Dimensions & Weight:	Height (with base)	396.6 mm
		Width	531.3mm
		Depth	206mm
		Weight (monitor only)	4.35 kg
		Weight (with packaging)	5.8 kg
Environmental	Temperature:	Operating	0° to 40°
		Non-Operating	-20°to 60°
	Humidity:	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 80% (non-condensing)
	Altitude:	Operating	0~ 3000m (0~ 10000 ft)
		Non-Operating	0~ 5000m (0~ 15000 ft)

2. LCD Monitor Description

The LCD monitor will contain a main board, an adapter board, a converter board, two USB boards and a key board which house the flat panel control logic, brightness control logic and DDC.
The power part will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



3. Operating Instructions

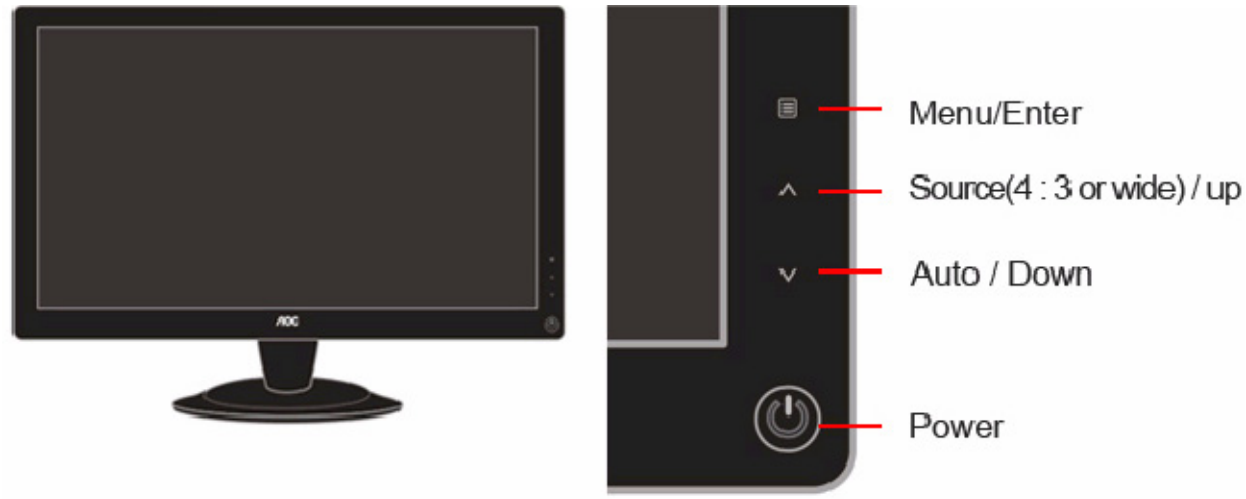
3.1 General Instructions

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor.

By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

3.2 Control Buttons and Connections

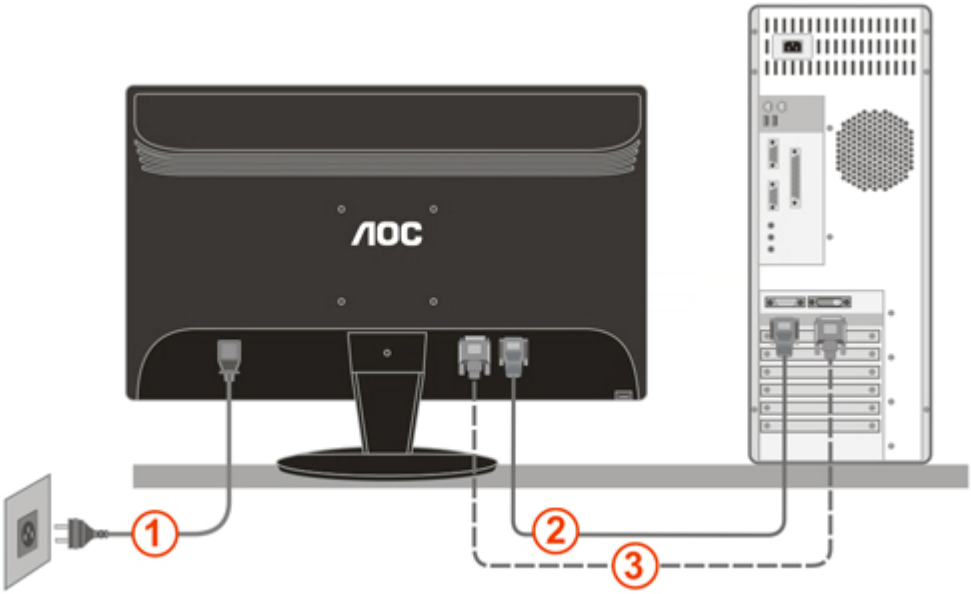


Power Press to turn on or turn off the monitor.

Source (4 : 3 or wide) / Up Press ^key to change the screen aspect ratio between standard 4:3 format or Wide format.

Source hot key : When the OSD is closed, press vbutton will be Source hot key function (Only for the models with dual or more inputs) .Press Source button continuously to select the input source showed in the message bar , press Menu/Enter button to change to the source selected.

Auto / Down Auto configure hot key: When the OSD is closed, press Auto button to do auto configure.



1. Power
2. Analog (DB-15 VGA cable)
3.DVI

To protect equipment, always turn off the PC and LCD monitor before connecting.

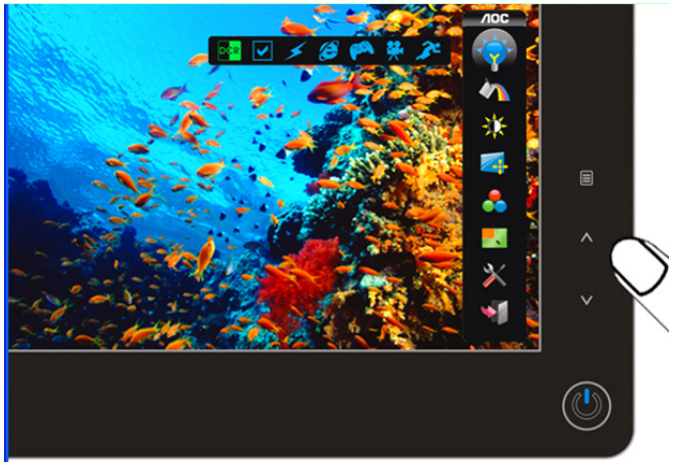
1. Connect the power cable to the AC port on the back of the monitor.
2. Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer's D-Sub port.
3. (Optional – Requires a video card with DVI port) - Connect one end of the DVI cable to the back of the monitor and connect the other end to the computer’s DVI port.
4. Turn on your monitor and computer.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

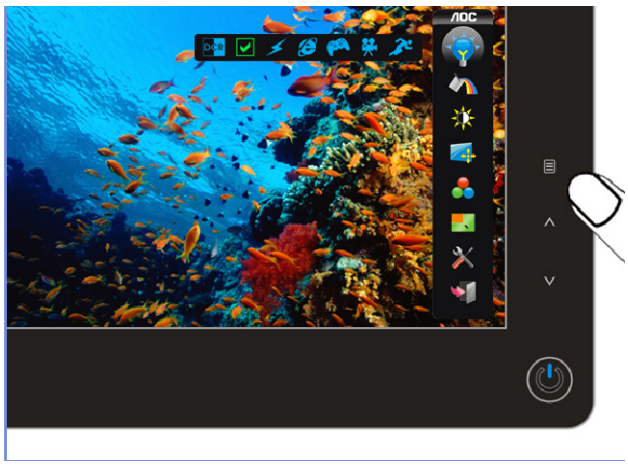
3.3 Adjusting the Picture

Eco mode ---DCR, Standard, Text, Internet, Game, Movie, Sports

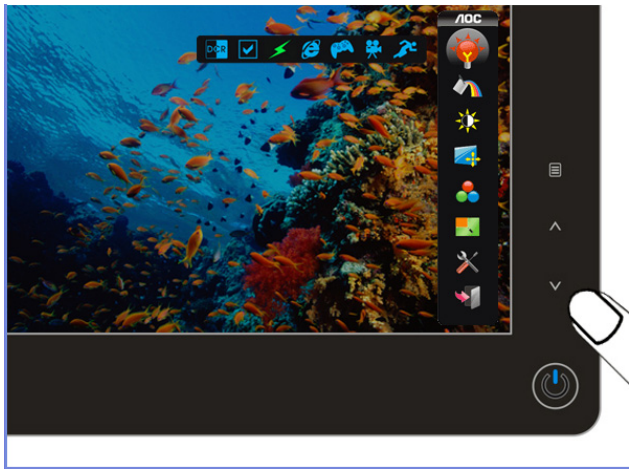
DCR



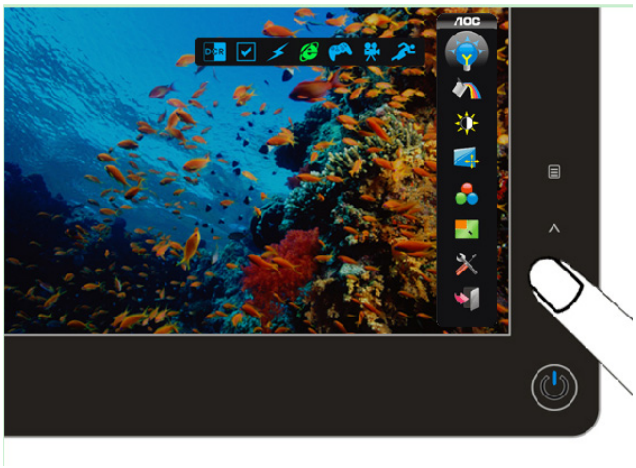
Standard



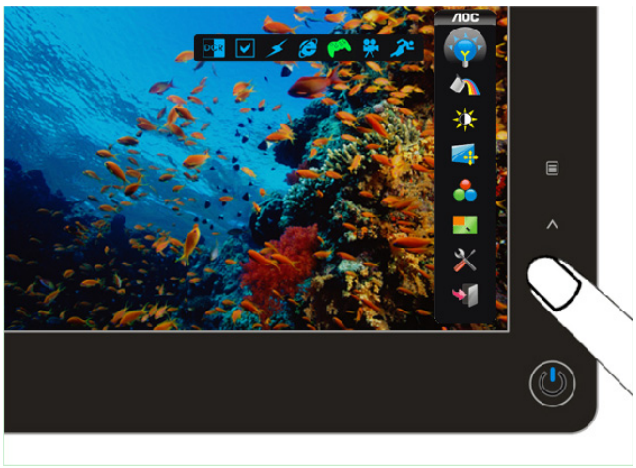
Text



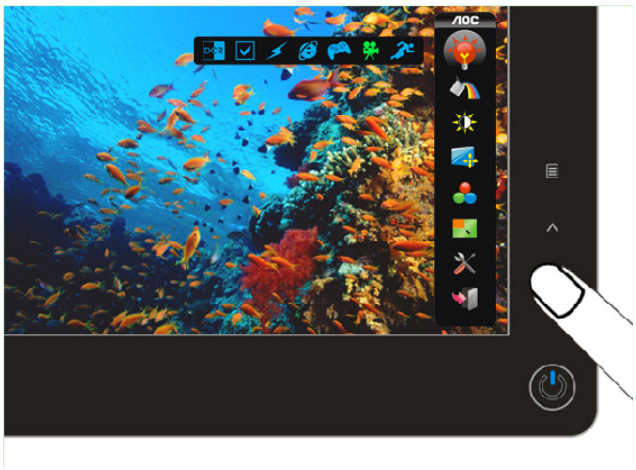
Internet



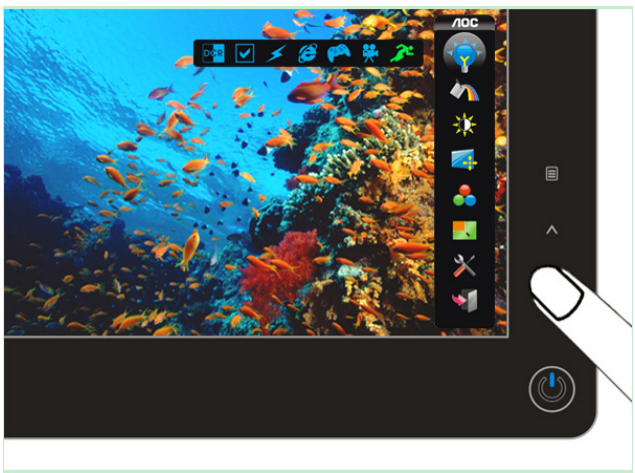
Game



Movie



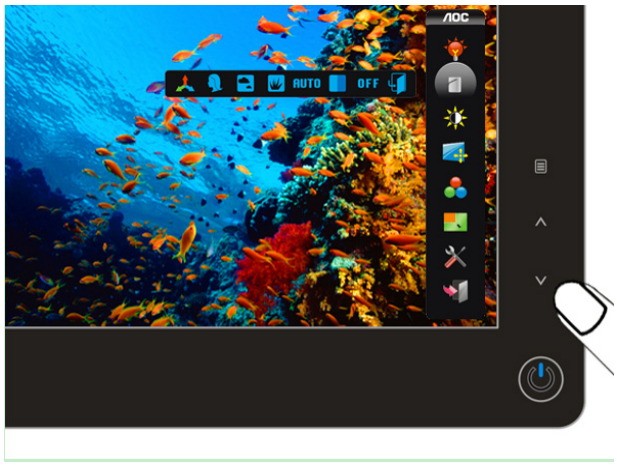
Sports



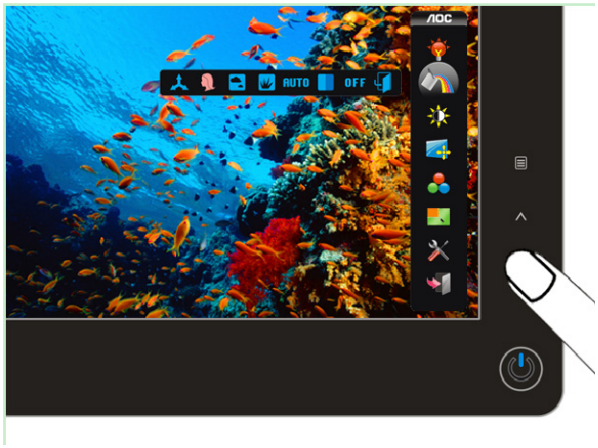
Notes : When Eco mode is not set as “Standard”, Contrast and Brightness can not be adjusted; When DCR is set as “On”, Contrast, Brightness, Eco mode and Gamma can not be adjusted.

Color Boost --- Full Enhance, Nature Skin, Sky-Blue, Green Field, Auto Detect, Demo, Off, Exit

Full Enhance

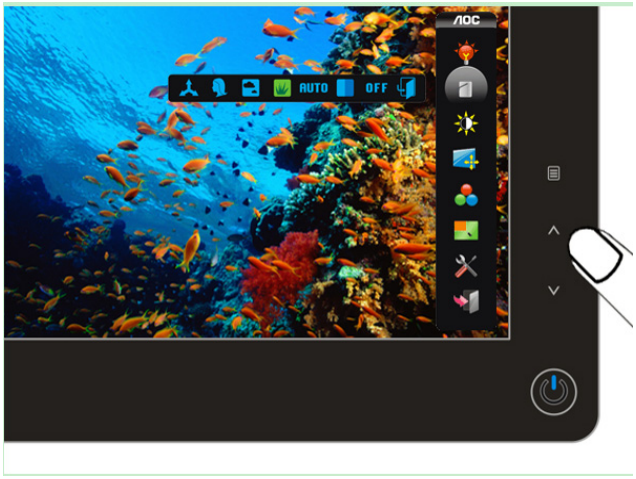


Nature Skin



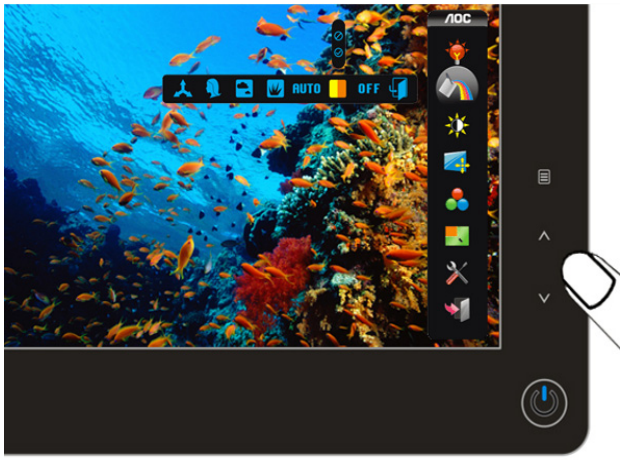
Sky-Blue

Green Field



Auto Detect

Demo



Off

Exit

Notes :

Full Enhance: Total color saturation is enhanced, suitable for vivid pictures.

Natural Skin: Suitable for human portrait.

Green Field: Suitable for large area of green.

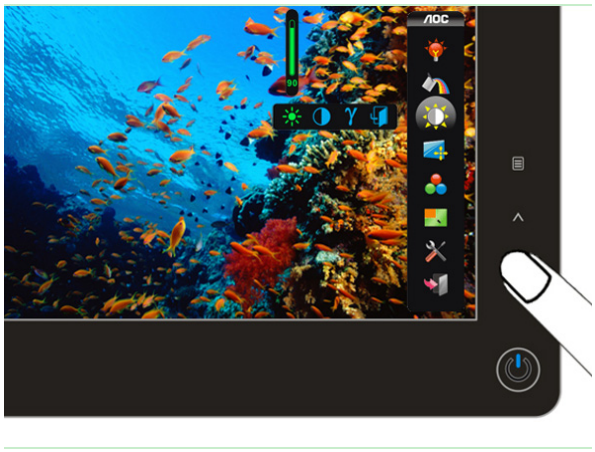
Sky Blue: Suitable for sky or ocean scene.

Auto Detect: Suitable for outdoor or garden.

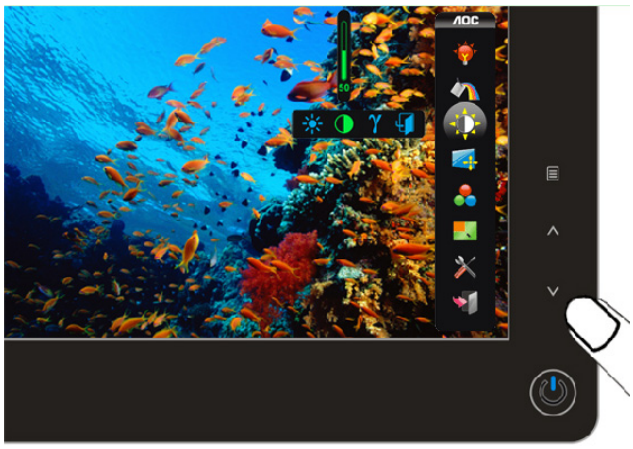
Demo: Screen divided into two for comparison purpose.

Luminance ---Brightness,Contrast, Gamma

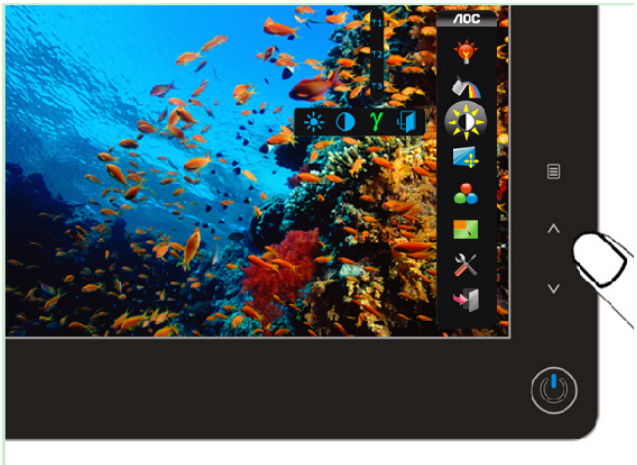
Brightness



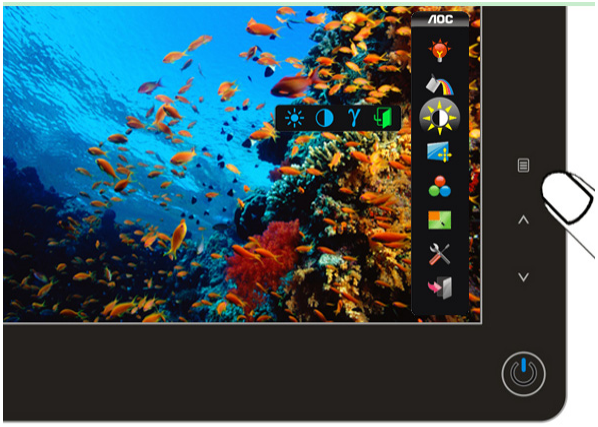
Contrast



Gamma



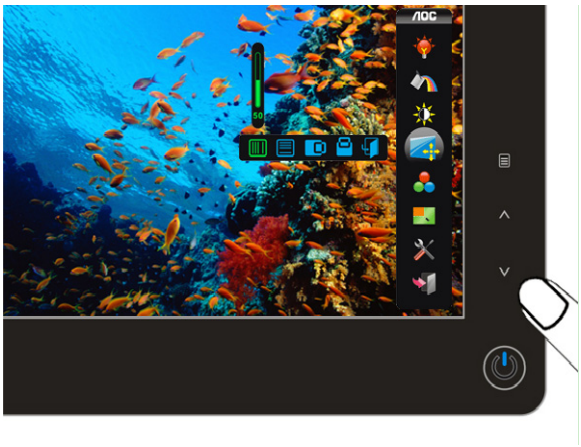
Exit



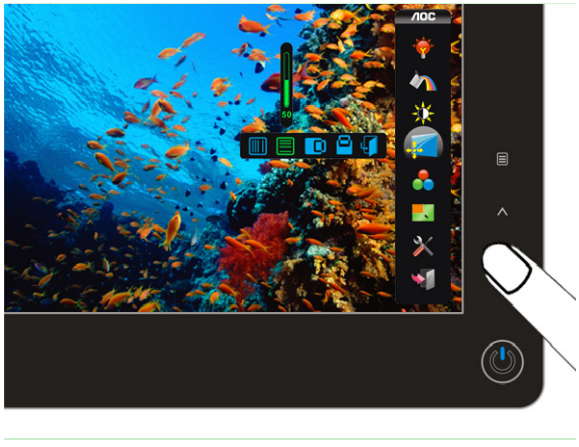
Notes : When Eco mode is not set as “Standard”, Contrast and Brightness can not be adjusted; When DCR is set as “On”, Contrast, Brightness, Eco mode and Gamma can not be adjusted.

Image Setup --- Clock, Phase, H.Position, V.Position, Exit

Clock

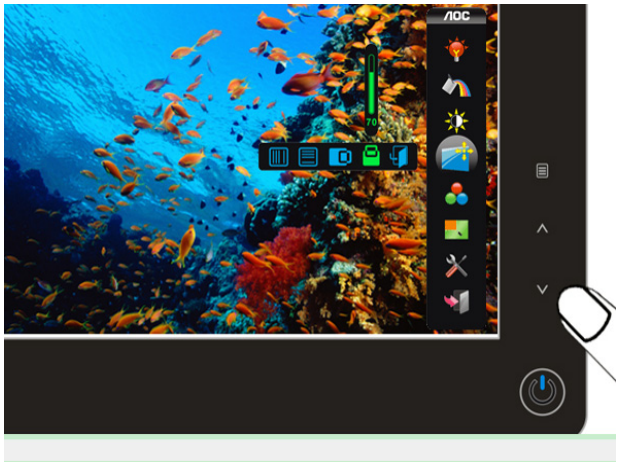


Phase

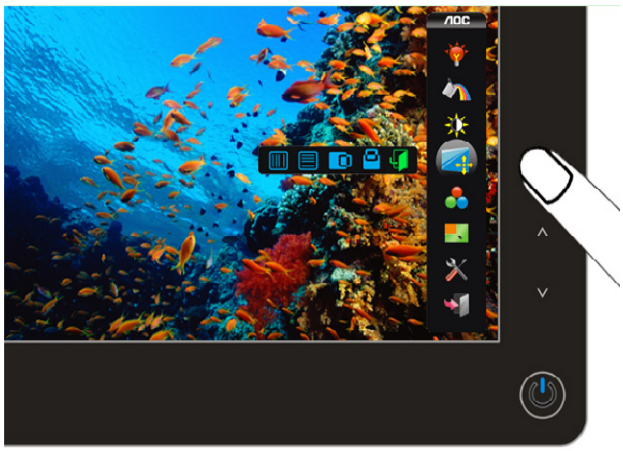


H.Position

V.Position



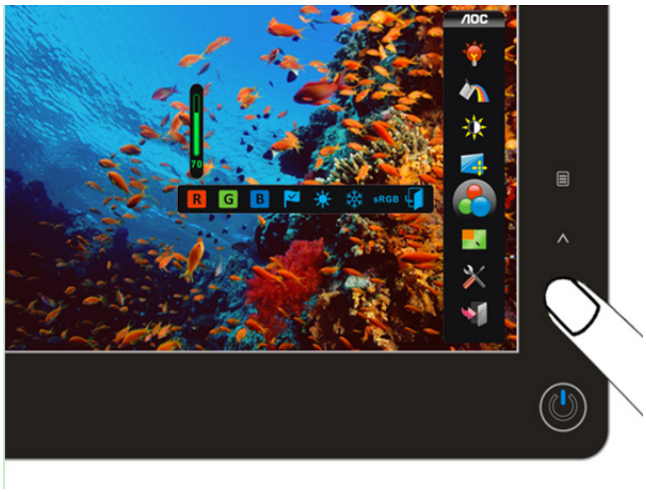
Exit



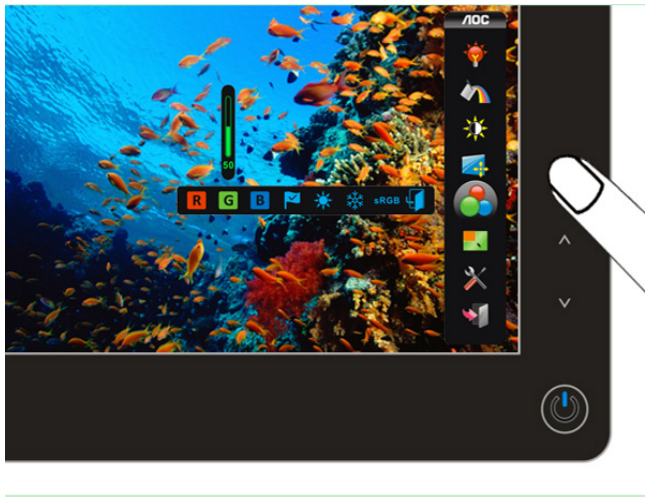
Notes : When the input source is digital signal like DVI or HDMI, Image Setup can not be adjusted.

Color Temperature ---User-R , User-G , User-B, Normal, Warm, Cool, sRGB, Exit

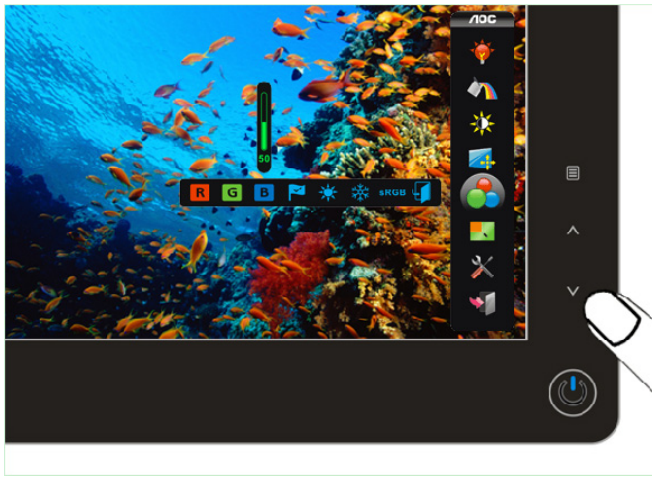
User-R



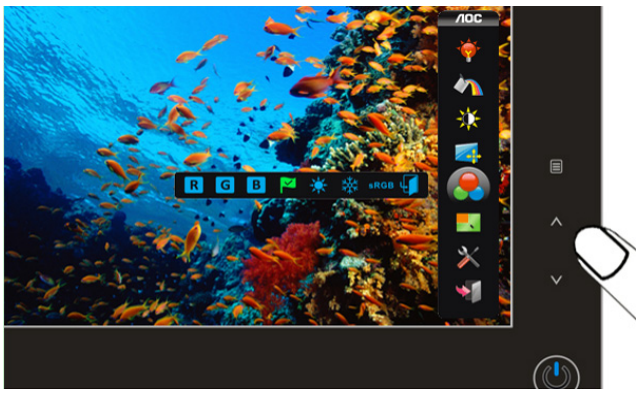
User-G



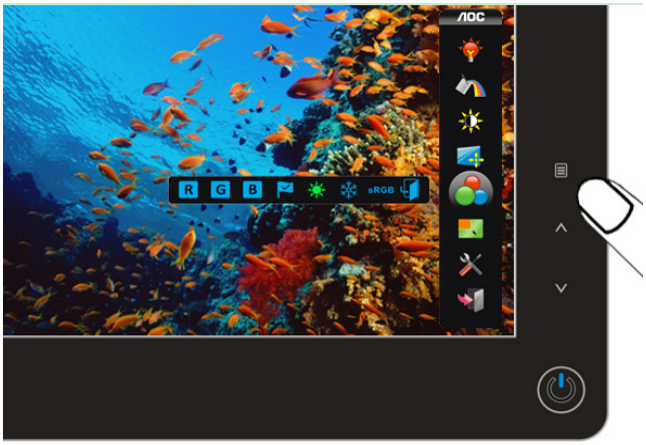
User-B



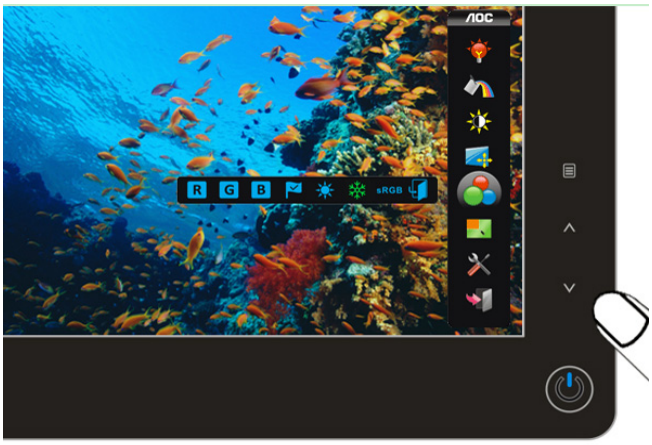
Normal



Warm

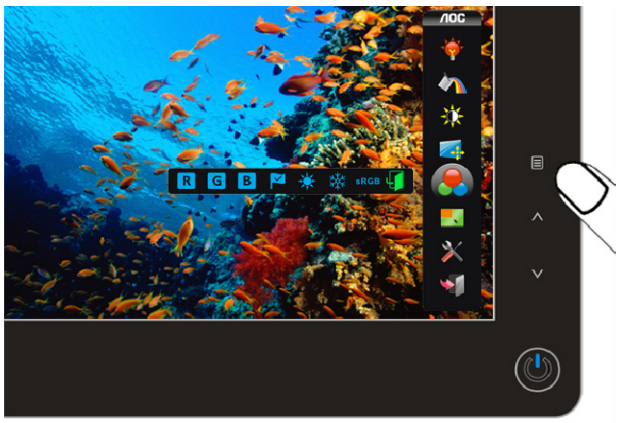


Cool



sRGB

Exit

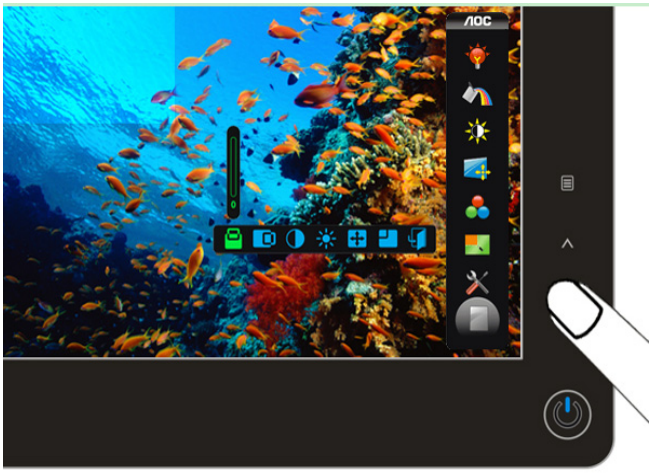


Notes :

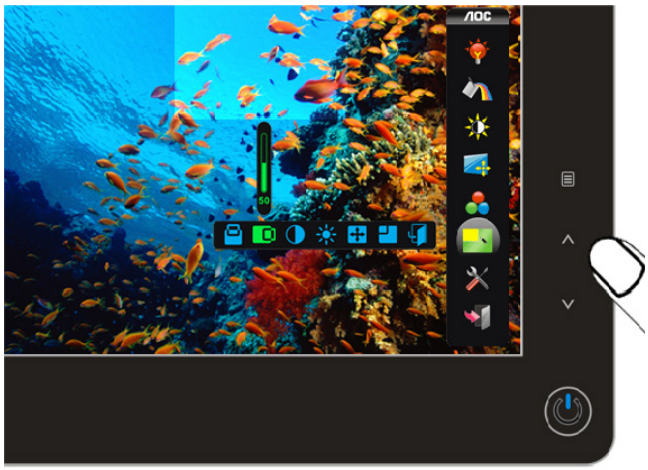
One of DCR, Color Boost, and Picture Boost functions is active, the other two function is turned off accordingly.

Picture Boost --- V.Position, H.Position, Contrast, Brightness, Frame Size, Bright Frame, Exit

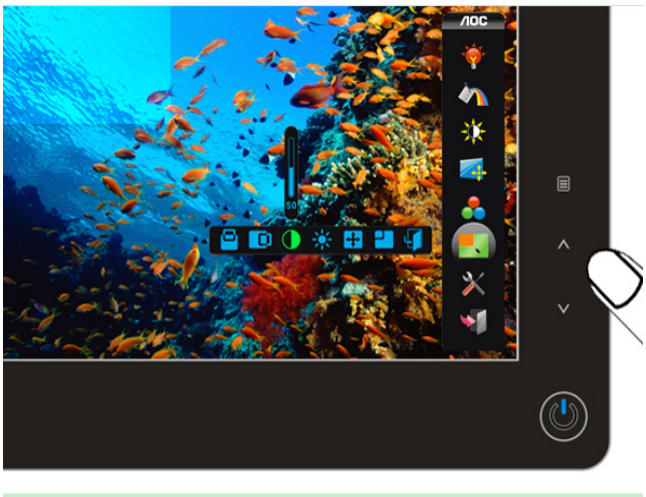
V.Position



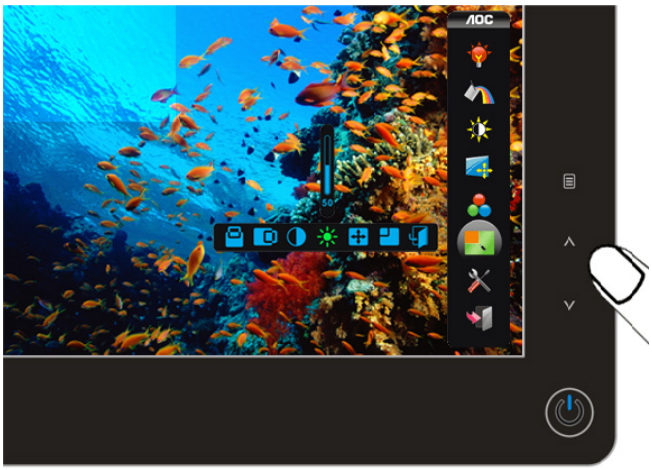
H.Position



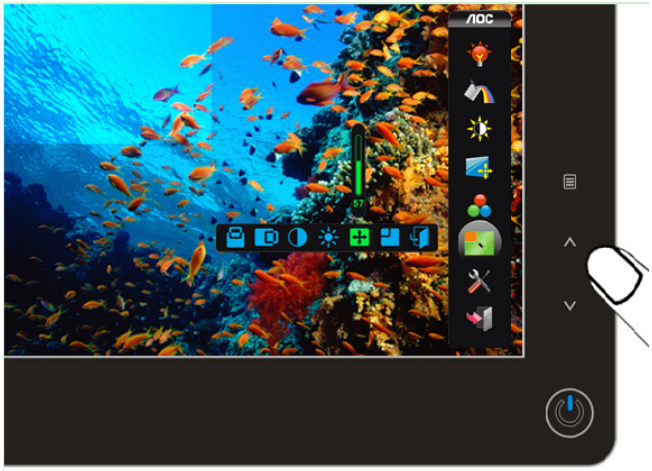
Contrast



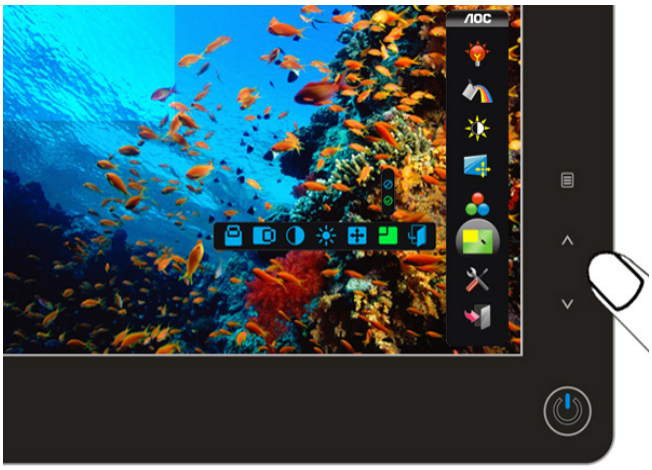
Brightness



Frame Size



Bright Frame



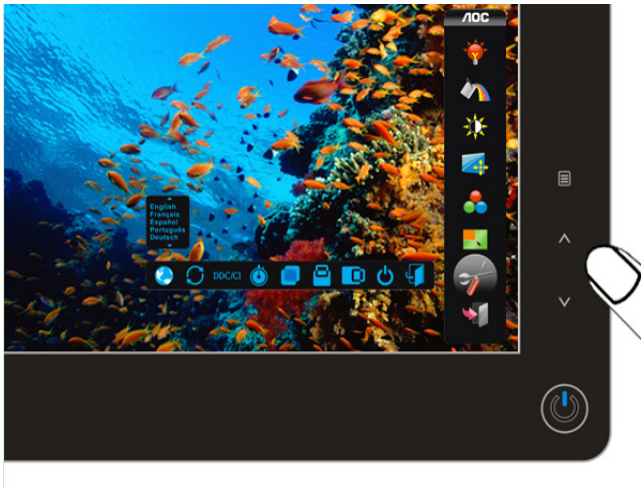
Exit

Notes :

One of DCR, Color Boost, and Picture Boost functions is active, the other two function is turned off accordingly.

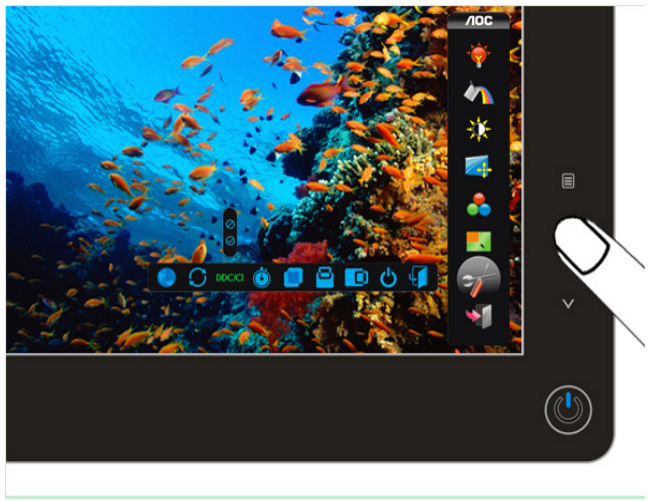
Extra ---Language, Reset, DDC-CI,OSD Timeout, Transparency, V. Position, H. Position, Off Timer, Exit

Language

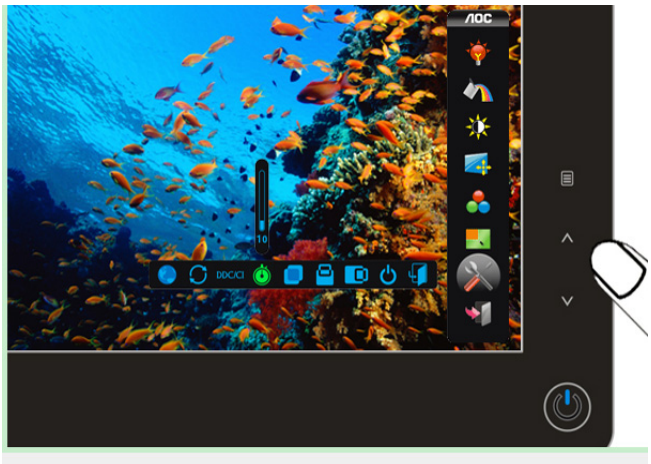


Reset

DDC-CI

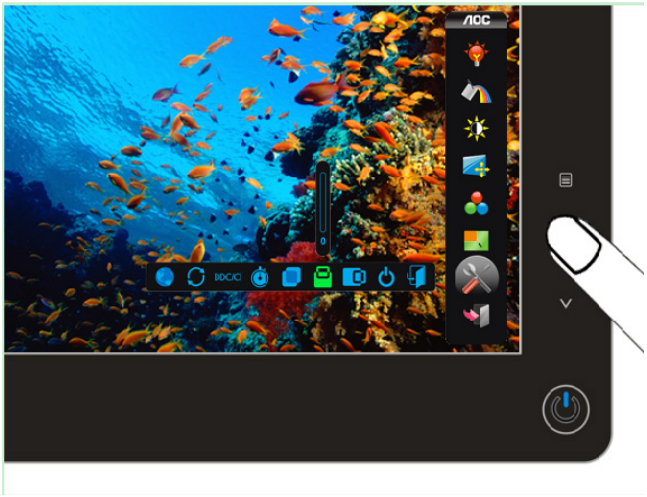


OSD Timeout

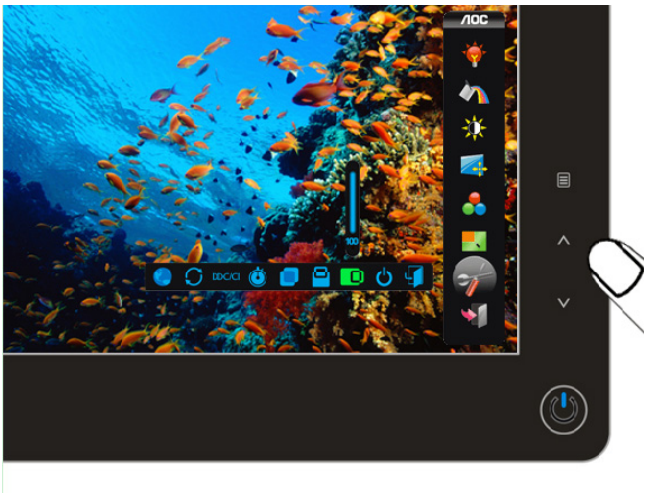


Transparency

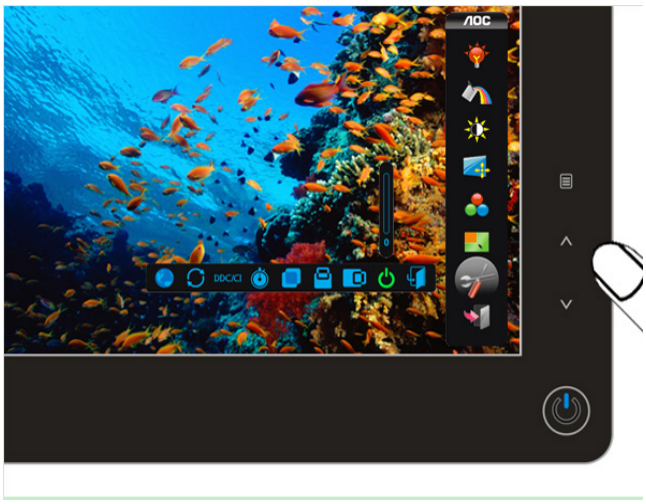
V. Position



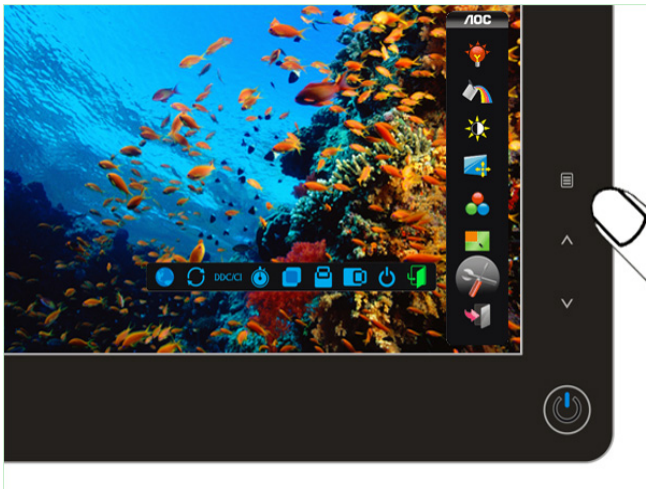
H. Position



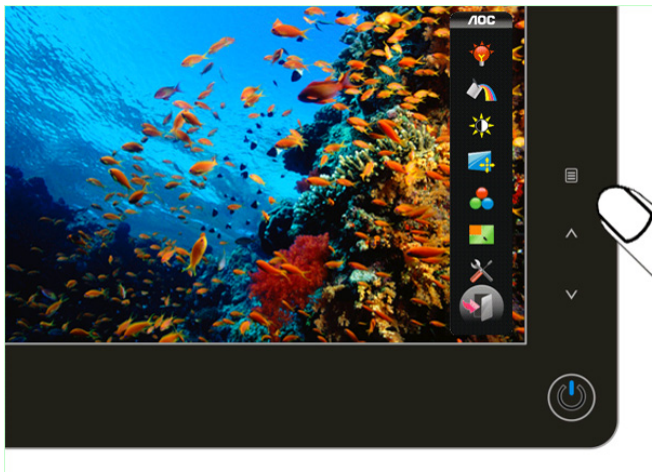
Off Timer



Exit



Exit



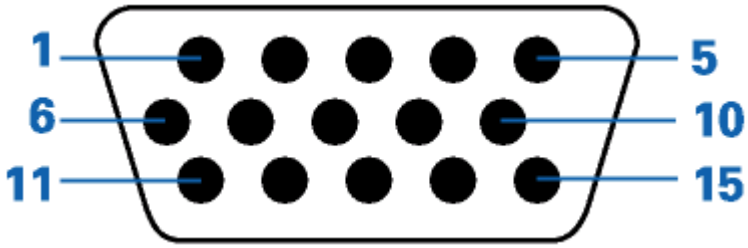
LED Indicator

Status	LED Color	
Full Power Mode	Blue	
Active-off Mode	Orange	

4. Input/Output Specification

4.1 Input Signal Connector

D-SUB connector



PIN NO.	DESCRIPTION	PI N NO.	DESCRIPTION
1	Video-Red	9	+5V
2	Video-Green	10	Ground
3	Video-Blue	11	N.C.
4	N.C.	12	DDC-Serial data
5	Detect Cable	13	H-sync
6	GND-R	14	V-sync
7	GND-G	15	DDC-Serial clock
8	GND-B		

4.2 Factory Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(kHZ)	VERTICAL FREQUENCY(Hz)
VGA	640×480 @60Hz	31.469	59.94
VGA	640×480 @67Hz	35	66.667
VGA	640×480 @72Hz	37.861	72.809
VGA	640×480 @75Hz	37.5	75
Dos-mode	720×400 @70Hz	31.469	70.087
SVGA	800×600 @56Hz	35.156	56.25
SVGA	800×600 @60Hz	37.879	60.317
SVGA	800×600 @72Hz	48.077	72.188
SVGA	800×600 @75Hz	46.875	75
SVGA	832×624 @75Hz	49.725	74.55
XGA	1024×768 @60Hz	48.363	60.004
XGA	1024×768 @70Hz	56.476	70.069
XGA	1024×768 @75Hz	60.023	75.029
XGA	1024×768 @75Hz	60.241	74.927
***	1280×960 @60Hz	60	60
SXGA	1280×1024 @60Hz	63.981	60.02
SXGA	1280×1024 @75Hz	79.976	75.025
WXGA+	1440×900 @60Hz	55.935	59.887
WSXGA	1680X1050 @60Hz	65.29	59.954
HD	1920×1080@60Hz	67.5	60

4.3 Panel Specification

4.3.1 Display Characteristics

AUO M215HW01

This specification applies to the 21.5 inch-wide Color a-Si TFT-LCD Module M215HW01.The display supports the Full HD - 1920(H) x 1080(V) screen format and 16.7M colors (RGB 6-bits + Hi-FRC data). All input signals are 2-channel LVDS interface and this module doesn't contain an driver board for backlight.

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	546.86(21.53")
Active Area	[mm]	476.64 (H) x 268.11 (V)
Pixels H x V		1920(x3) x 1080
Pixel Pitch	[um]	248.25 (per one triad) ×248.25
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN Mode, Normally White
White Luminance (Center)	[cd/m^2]	250cd/m^2 (Typ.)
Contrast Ratio		1000 (Typ.)
Optical Response Time	[msec]	5ms (Typ., on/off)
Nominal Input Voltage VDD	[Volt]	+5.0 V
Power Consumption (VDD line + LED line)	[Watt]	17.6 (Typ.) (without driver board, all black pattern)
Weight	[Grams]	1800 (max.)
Physical Size	[mm]	495.6(W) × 292.2(H) × 10.3(D) Typ.
Electrical Interface		Dual channel LVDS
Support Color		16.7M colors (RGB 6-bit + Hi_FRC)
Surface Treatment		Anti-Glare, 3H
Temperature Range Operating Storage (Shipping)	 [°C] [°C]	 0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance
TC0 Compliance		TC0 5.0 Compliance

Factory Use Only ! 2010/11/10

4.3.2 Optical Characteristics

AUO M215HW01

Ta=25℃

Item	Unit	Conditions	Min.	Typ.	Max.
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	75 75	85 85	- -
		Vertical (Up) CR = 10 (Down)	70 70	80 80	- -
Contrast ratio		Normal Direction	600	1000	-
Response Time	[msec]	Raising Time (T_{rR})	-	3.8	5.5
		Falling Time (T_{rF})	-	1.2	2.5
		Raising + Falling	-	5	8
Color / Chromaticity Coordinates (CIE)		Red x	0.605	0.635	0.665
		Red y	0.319	0.349	0.379
		Green x	0.302	0.332	0.362
		Green y	0.589	0.619	0.649
		Blue x	0.125	0.155	0.185
		Blue y	0.025	0.055	0.085
Color Coordinates (CIE) White		White x	0.283	0.313	0.343
		White y	0.299	0.329	0.359
Central Luminance	[cd/m^2]		200	250	-
Luminance Uniformity	[%]		75	80	-
Crosstalk (in 60Hz)	[%]				1.5
Flicker	dB				-20

Only / 2010/11/10

4.3.3 Electrical Characteristics

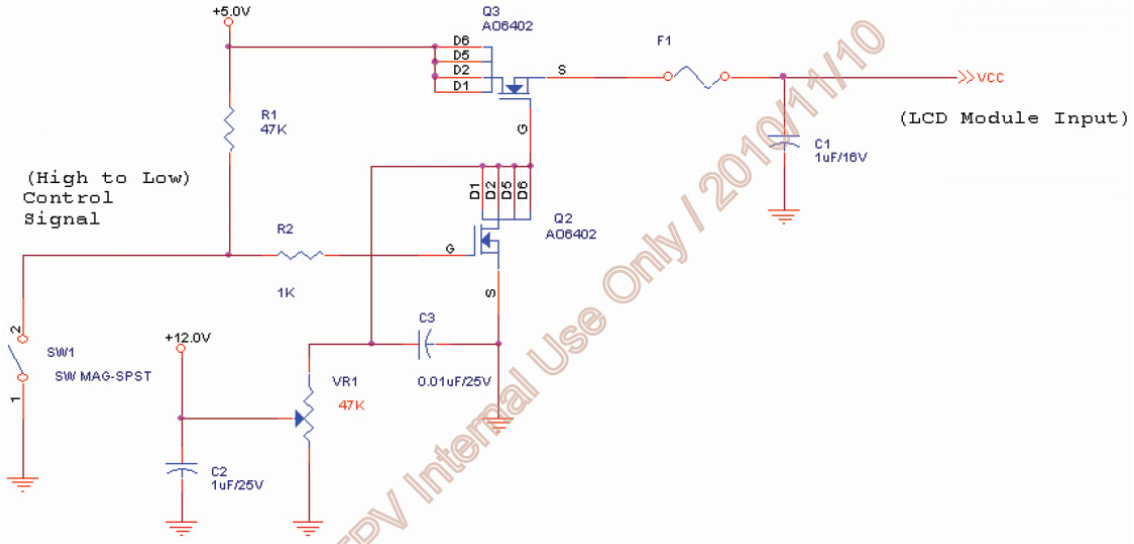
1.TFT LCD Module:

AUO M215HW01

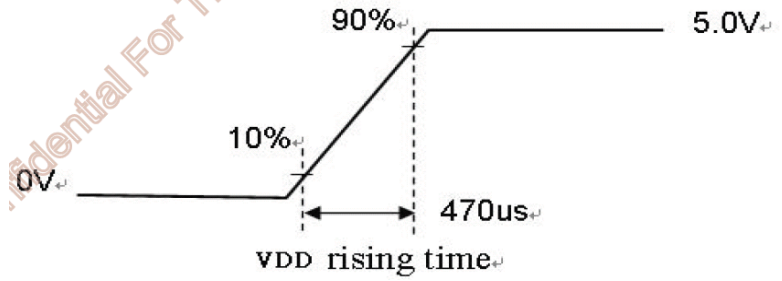
Symbol	Parameter	Min	Typ	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5.0	5.5	[Volt]	+/-10%
IDD	Input Current	-	0.98	1.22	[A]	VDD= 5.0V, All Black Pattern At 60Hz
PDD	VDD Power	-	4.9	6.1	[Watt]	VDD= 5.0V, All Black Pattern At 60Hz
IRush	Inrush Current	-	-	3	[A]	**Note 1**
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	500	[mV] p-p	VDD= 5.0V, All Black Pattern At 75Hz

Note1：Measurement conditions:

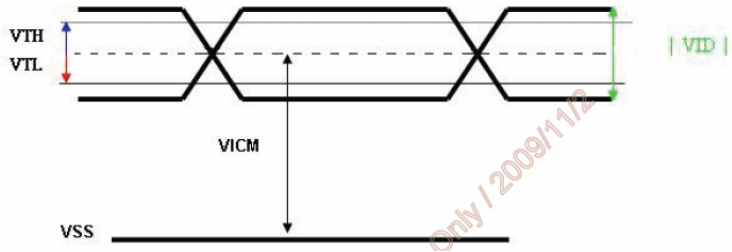
The duration of rising time of power input is 470us.



Confidential For TPV Internal Use Only / 2010/11/10



Note 1: LVDS Signal Waveform



Only / 2009/11/2

2.Back Light Unit:

AUO M215HW01

Ta=25℃

Symbol	Parameter	Min.	Typ.	Max.	Unit	Note
IR_{LED}	LED Operation Current	-	60	63	[mA] Note 1	**Operating with fixed driving current**
V_{LB}	Light Bar Operation Voltage (for reference)	48	52.8	57.6	[Volt] Note 2	
P_{BLU}	BLU Power consumption (for reference)		12.7	13.8	[Watt] Note 3	
LT_{LED}	LED life Time	30000			[Hour] Note 3	

Note 1 :The specified current is input LED chip 100% duty current.

Note 2 : The value showed in the table is one light bar's operation voltage.

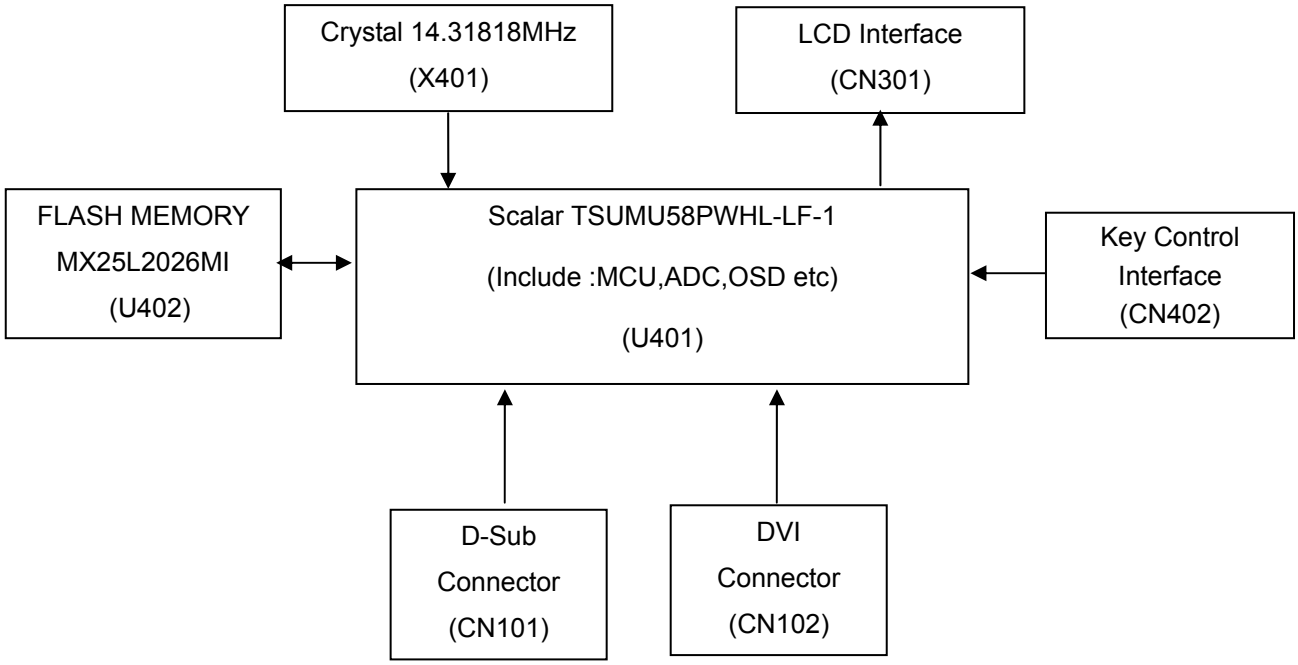
Note 3 : Definition of life time : brightness becomes 50% of its original value. The minimum life time of LED unit is on the condition of IR_{LED} =60mA and 25±2℃ (Room temperature).

Note 4: Each LED light bar consists of 64 pcs LED package (4 strings x 16 pcs / string).

5. Block Diagram

5.1 Main Board

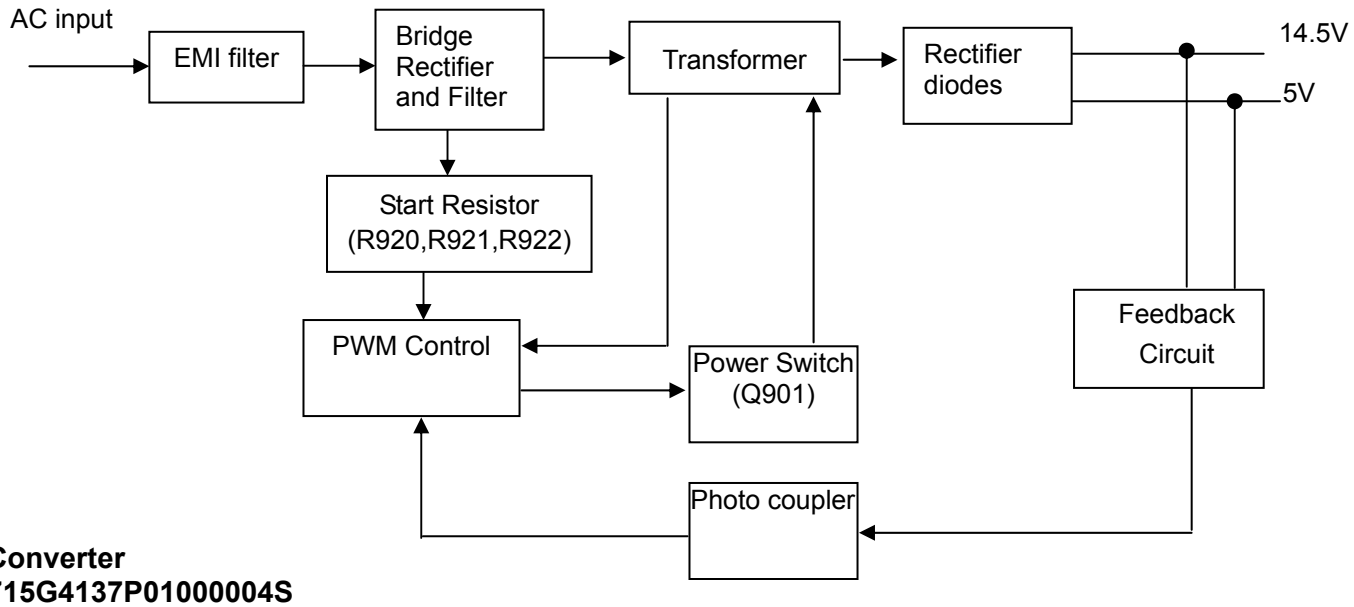
715G3329 1 2



5.2 Power Board

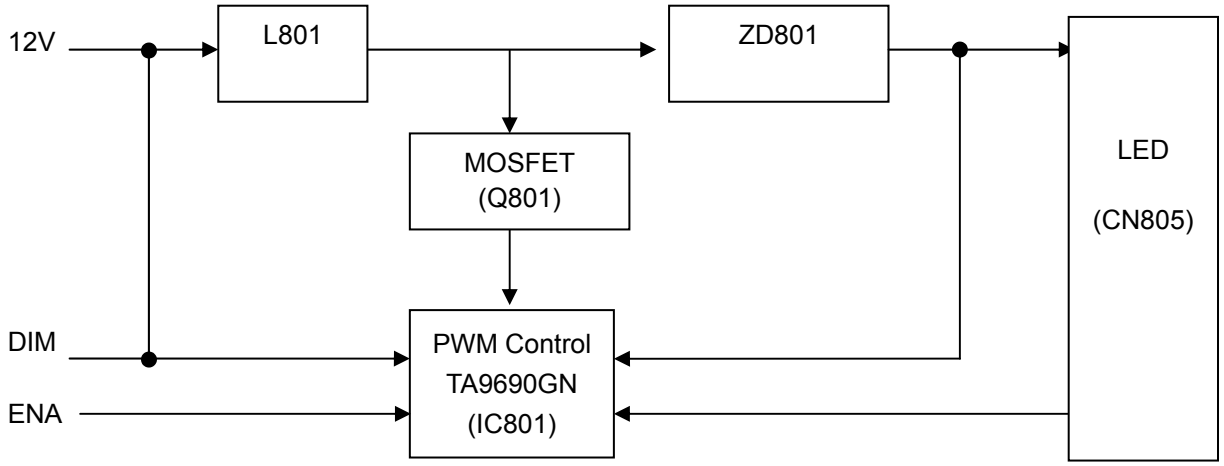
Adapter

715G3189P02LED001S



Converter

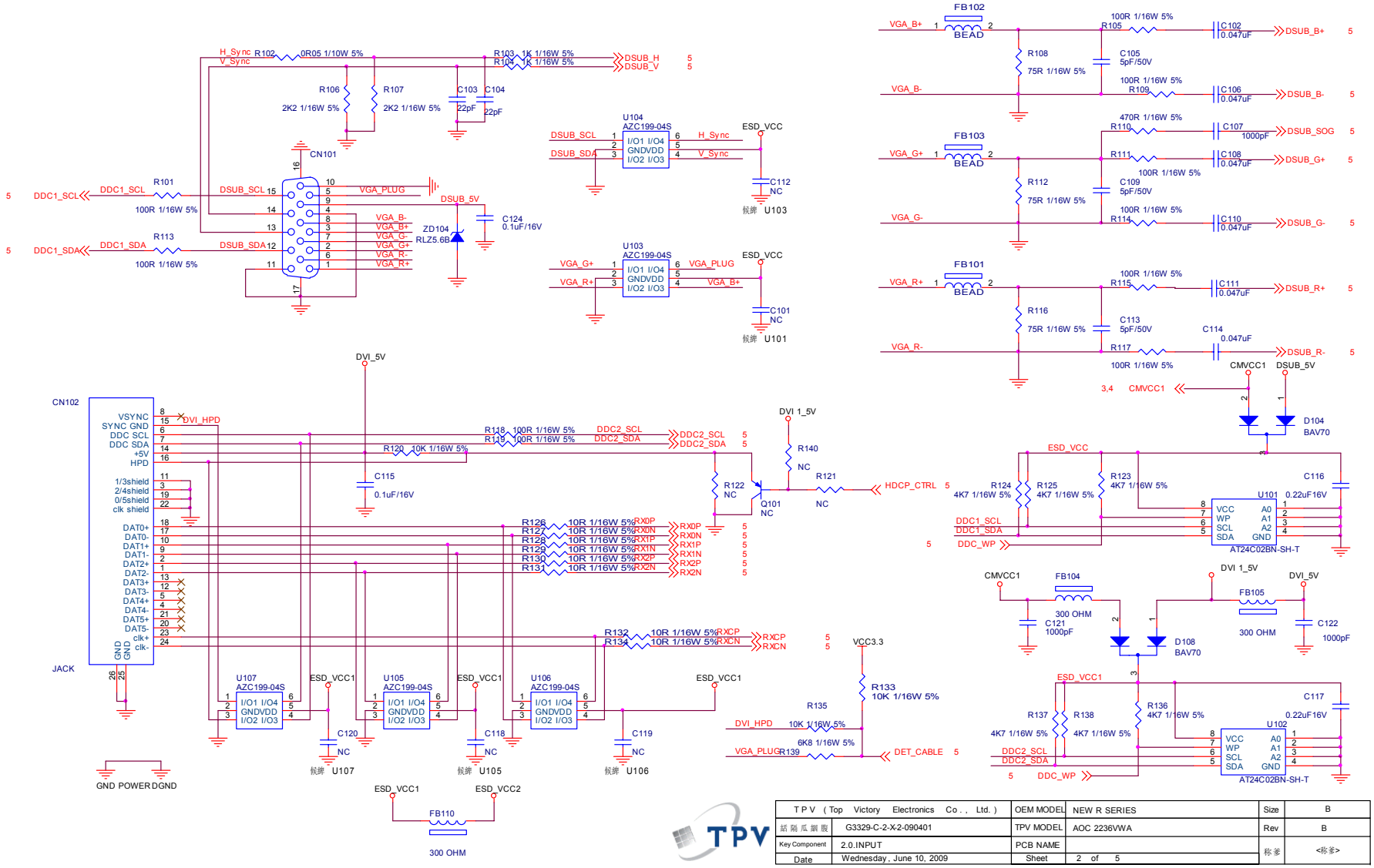
715G4137P01000004S



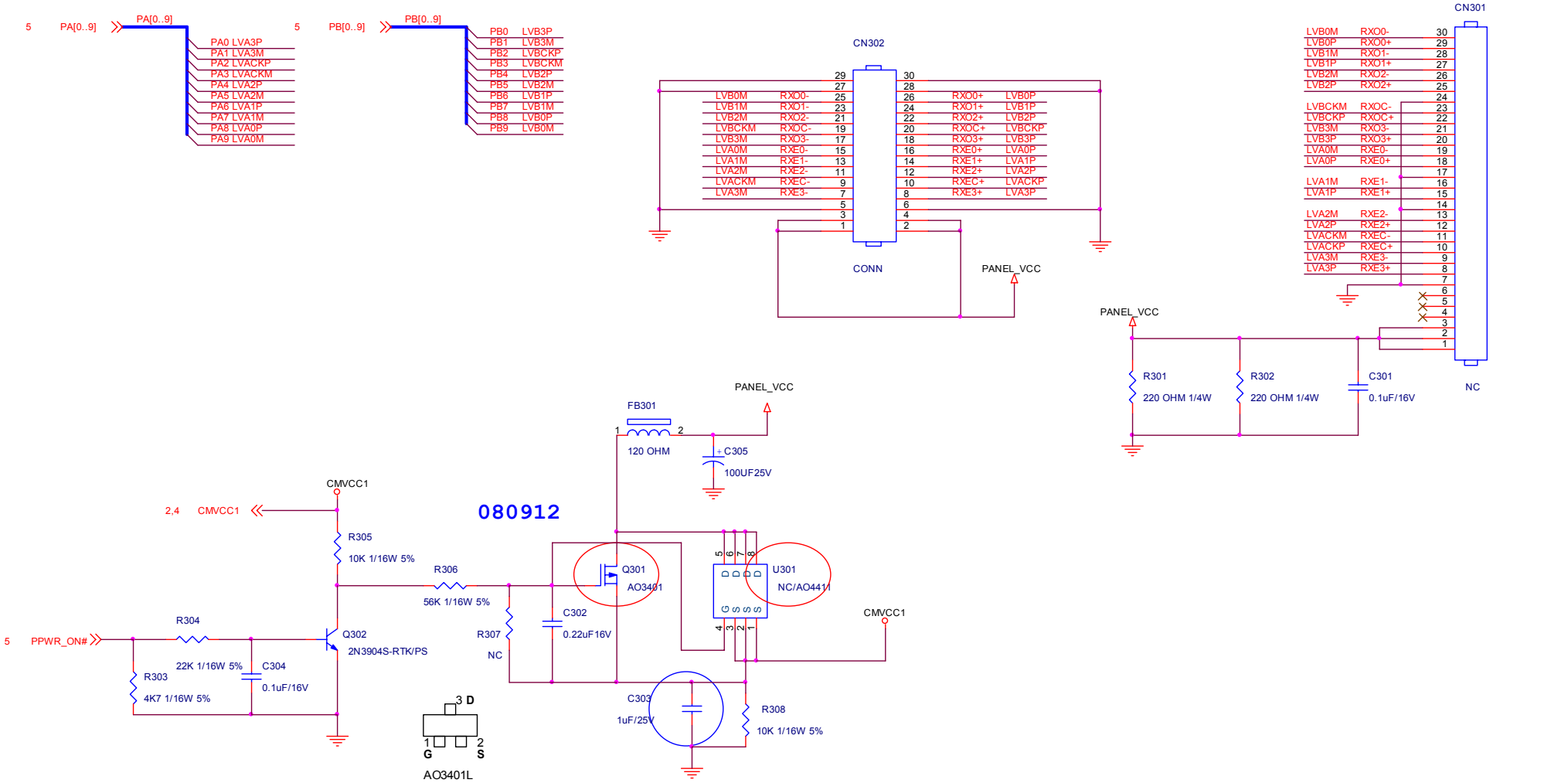
6. Schematic

6.1 Main Board

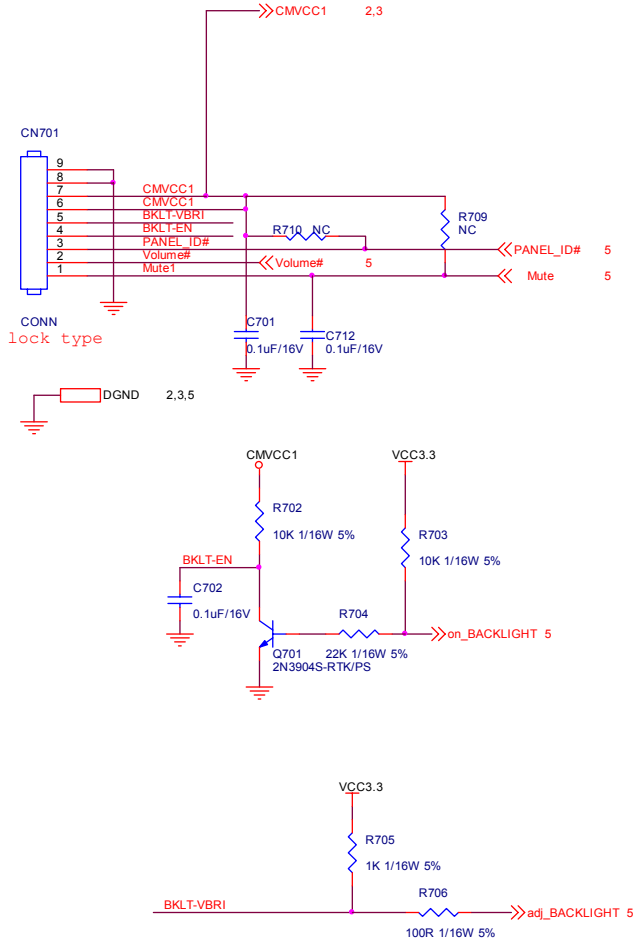
715G3329 1 2

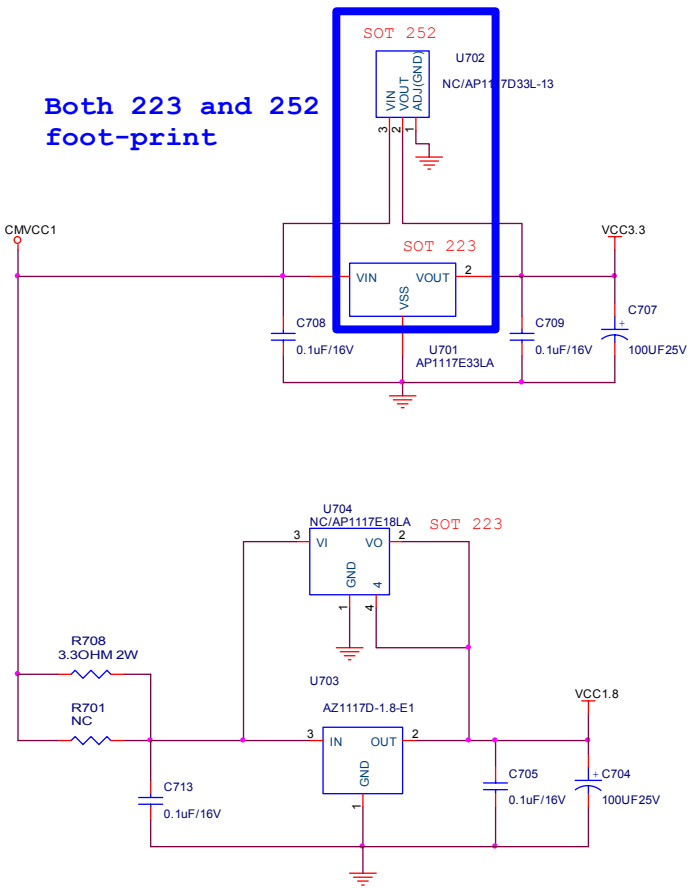


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	NEW R SERIES	Size	B
結 爾 瓜 鋼 版	G3329-C-2-X-2-090401	TPV MODEL	AOC 2236VWA	Rev	B
Key Component	2.0.INPUT	PCB NAME		称 爹	<称爹>
Date	Wednesday, June 10, 2009	Sheet	2 of 5		

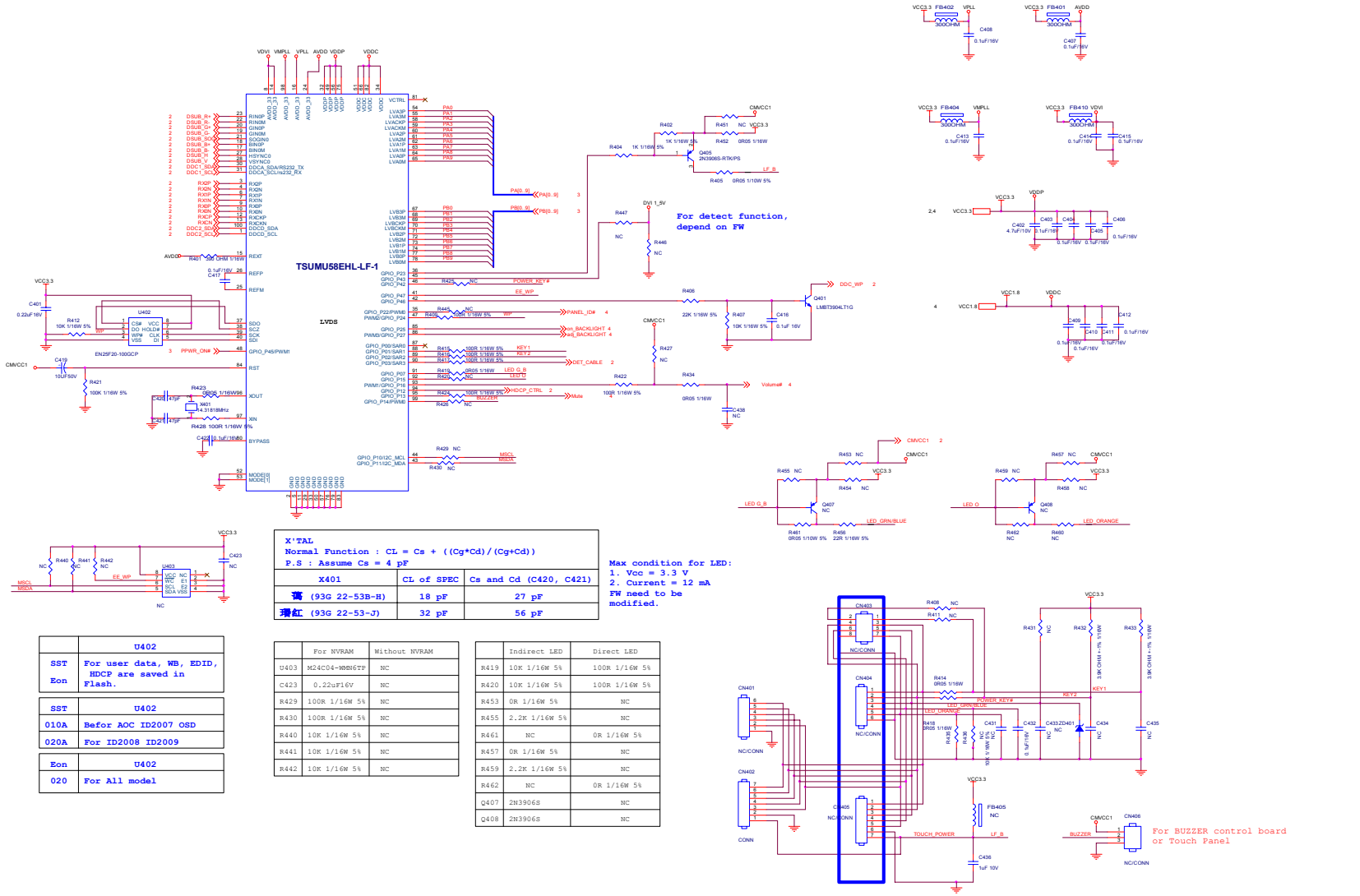


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	NEW R SERIES	Size	B
結 隔 瓜 鋼 腹	G3329-C-2-X-2-090401	TPV MODEL	AOC 2236VWA	Rev	B
Key Component	3.0.OUTPUT	PCB NAME		称 爹	<称爹>
Date	Wednesday , June 10, 2009	Sheet	3 of 5		





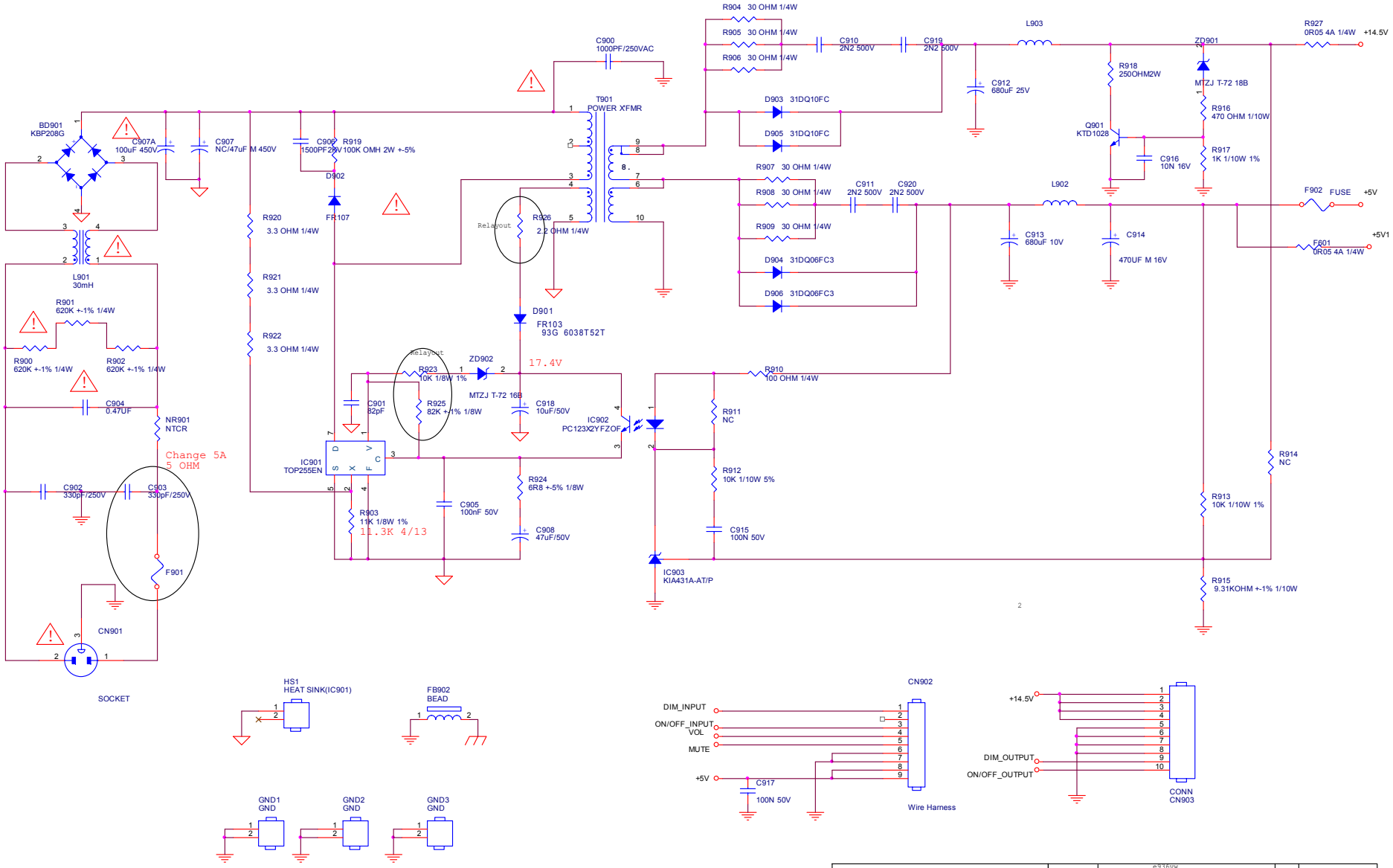
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	NEW R SERIES	Size	B
結隔瓜錮腹	G3329-C-2-X-2-090401	TPV MODEL	AOC 2236VWA	Rev	B
Key Component	4.0.POWER	PCB NAME		称爹	<称爹>
Date	Wednesday, June 10, 2009	Sheet	4 of 5		


TSUMU58EHL-LF-1
LVDS
For detect function, depend on FW
X'TAL
Normal Function : CL = Cs + ((Cg*Cd)/(Cg+Cd))
P.S : Assume Cs = 4 pF
X401 | CL of SPEC | Cs and Cd (C420, C421)
高 (93G 22-53B-H) | 18 pF | 27 pF
瑞红 (93G 22-53-J) | 32 pF | 56 pF
Max condition for LED:
1. Vcc = 3.3 V
2. Current = 12 mA
FW need to be modified.
U402
SST | For user data, WB, EDID, HDCP are saved in Flash.
SST | U402
010A | Befor AOC ID2007 OSD
020A | For ID2008 ID2009
Eon | U402
020 | For All model
For NVRAM | Without NVRAM
U403 | M24C04-WMN6TP | NC
C423 | 0.22uF16V | NC
R429 | 100R 1/16W 5% | NC
R430 | 100R 1/16W 5% | NC
R440 | 10K 1/16W 5% | NC
R441 | 10K 1/16W 5% | NC
R442 | 10K 1/16W 5% | NC
Indirect LED | Direct LED
R419 | 10K 1/16W 5% | 100R 1/16W 5%
R420 | 10K 1/16W 5% | 100R 1/16W 5%
R453 | 0R 1/16W 5% | NC
R455 | 2.2K 1/16W 5% | NC
R461 | NC | 0R 1/16W 5%
R457 | 0R 1/16W 5% | NC
R459 | 2.2K 1/16W 5% | NC
R462 | NC | 0R 1/16W 5%
Q407 | 2N3906S | NC
Q408 | 2N3906S | NC
For BUZZER control board or Touch Panel

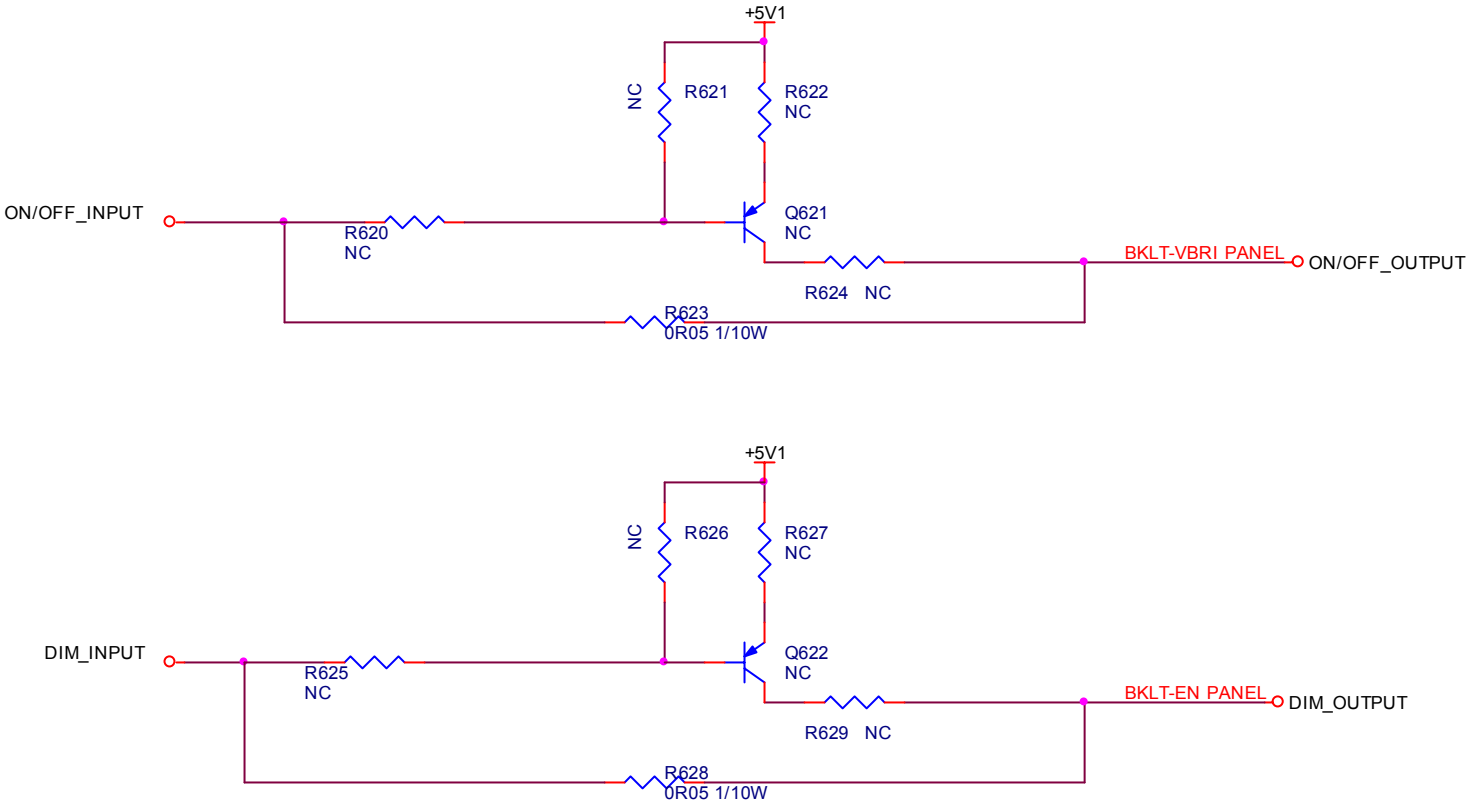
6.2 Power Board

Adapter

715G3189P02LED001S



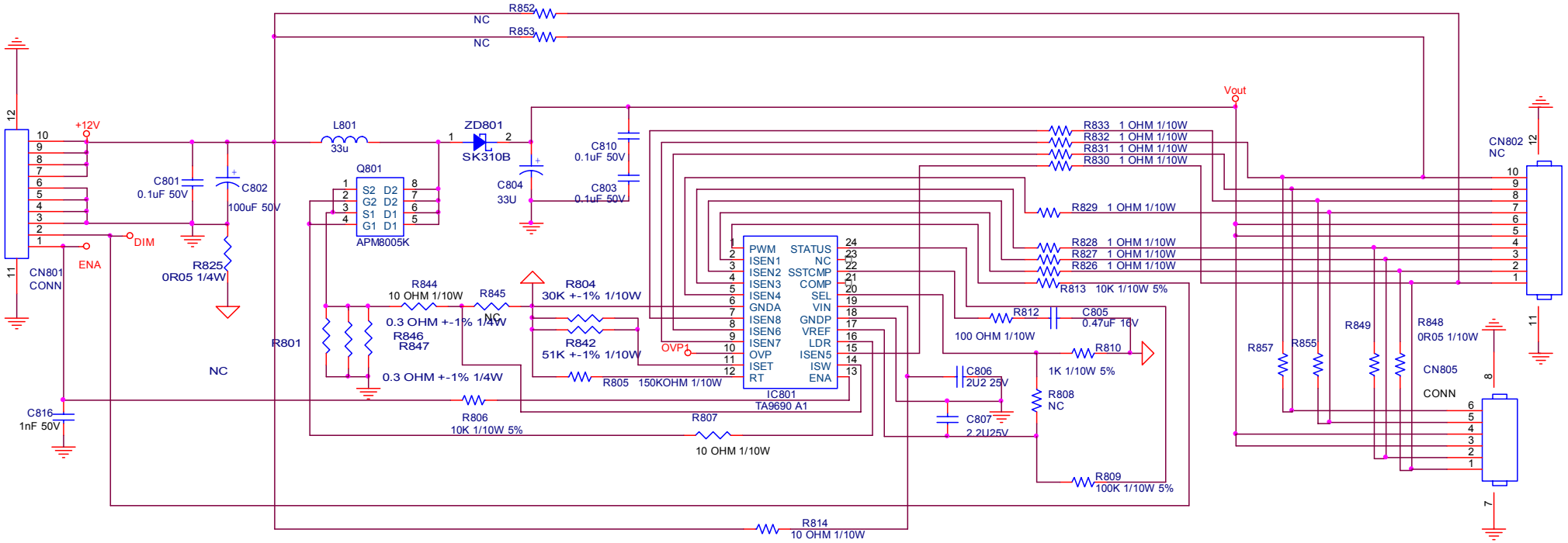
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	e936Vw	Size	Custom
結 陽 瓜 蘋 服	G3189-POC-LED-X-6-090825	TPV MODEL	ADPC91503HC3	Rev	C
Key Component	02.POWER	PCB NAME	715G3189-POC-LED	称 爹	ODM MODEL
Date	Wednesday, September 23, 2009	Sheet	2 of 3		

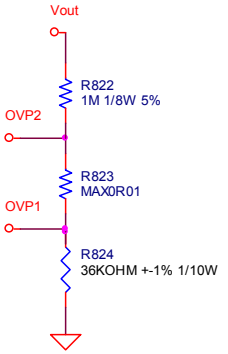


T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL	e936vw	Size	A
結 隔 瓜 綑 腹	G3189-POC-LED-X-6-090825	TPV MODEL	ADPC91503HC3	Rev	C
Key Component	04.BUFEER	PCB NAME	715G3189-POC-LED	称爹	ODM MODEL
Date	Wednesday , September 23, 2009	Sheet	3 of 3		

Converter

715G4137P01000004S





Iout	20mA	25mA	32MA	27.5MA
R804	56K	27K	30K	30K
R842	56K	150K	51K	75K
R815	56K	27K		
R843	56K	150K		

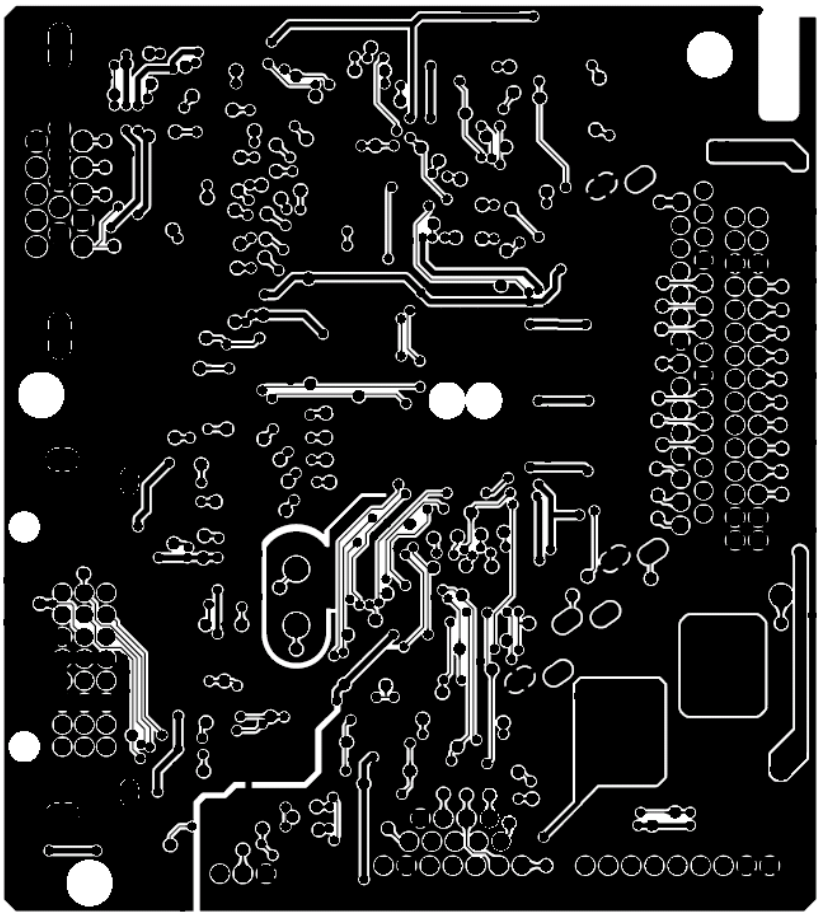
C811 change short item.
CN804 cancel ,add CN801
20100207

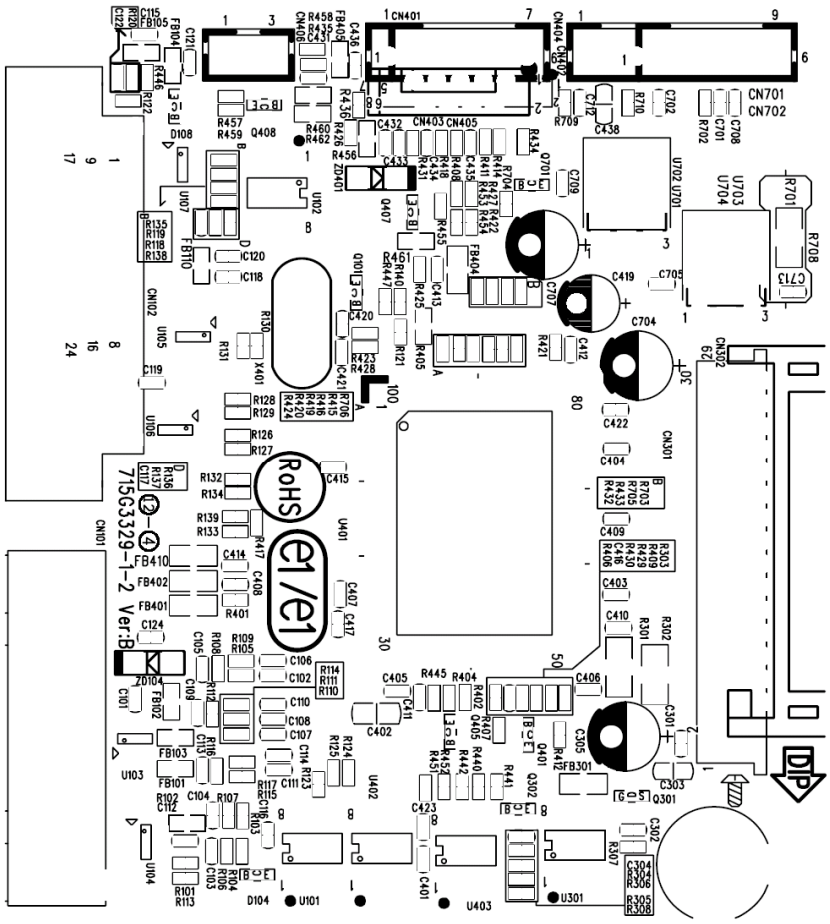
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	HP X23LED SEC	Size	A3
紙隔瓜網腹	G4137-P01-000-0040-2-100510	TPV MODEL	LNPCAD561SHA1	Rev	1.0
Key Component	02.CONVERTER	PCB NAME	715G4137-P01-000-0040	称爹	<称爹>
Date	Wednesday , June 30, 2010	Sheet	2 of 2		

7. PCB Layout

7.1 Main Board

715G3329 1 2

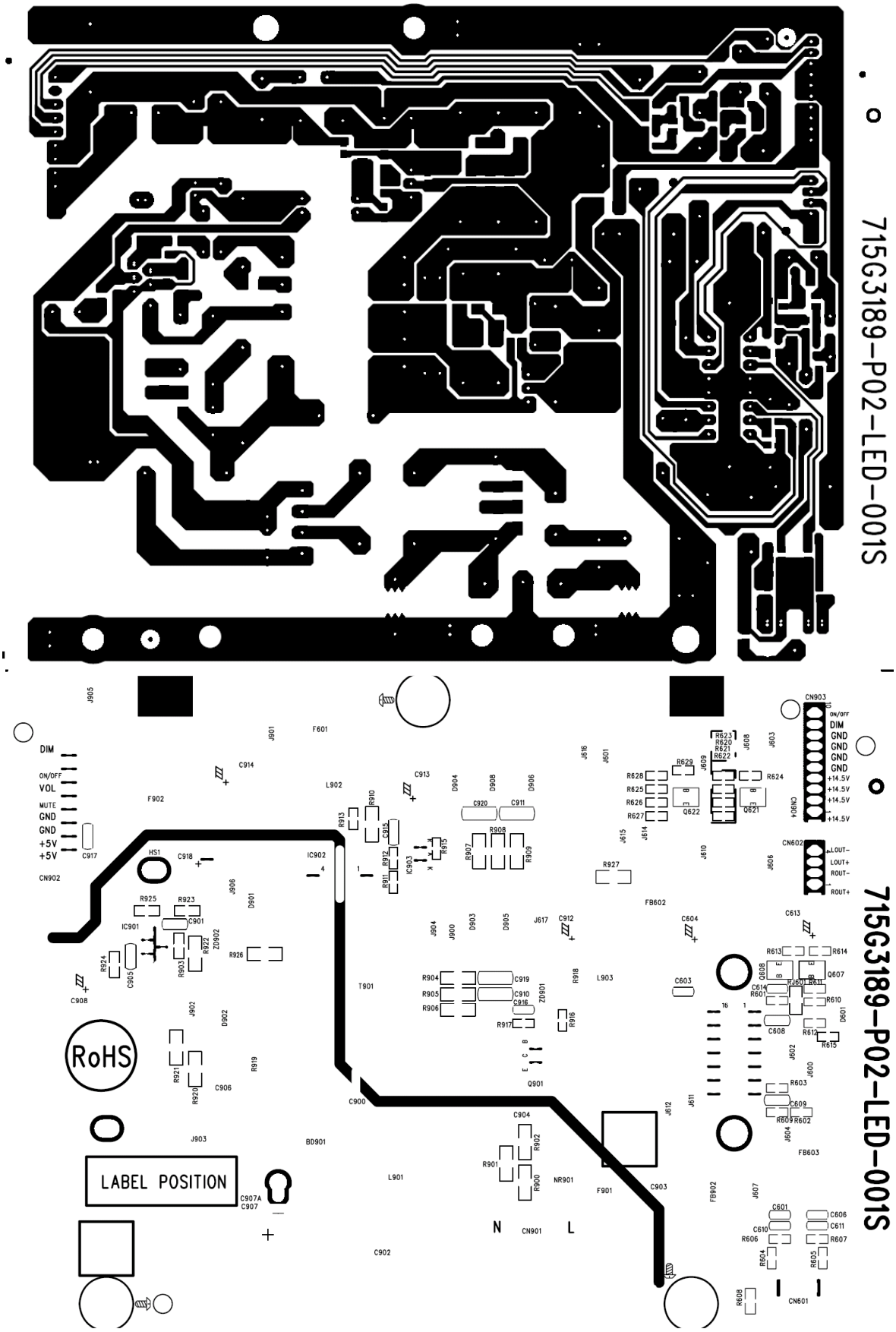




7.2 Power Board

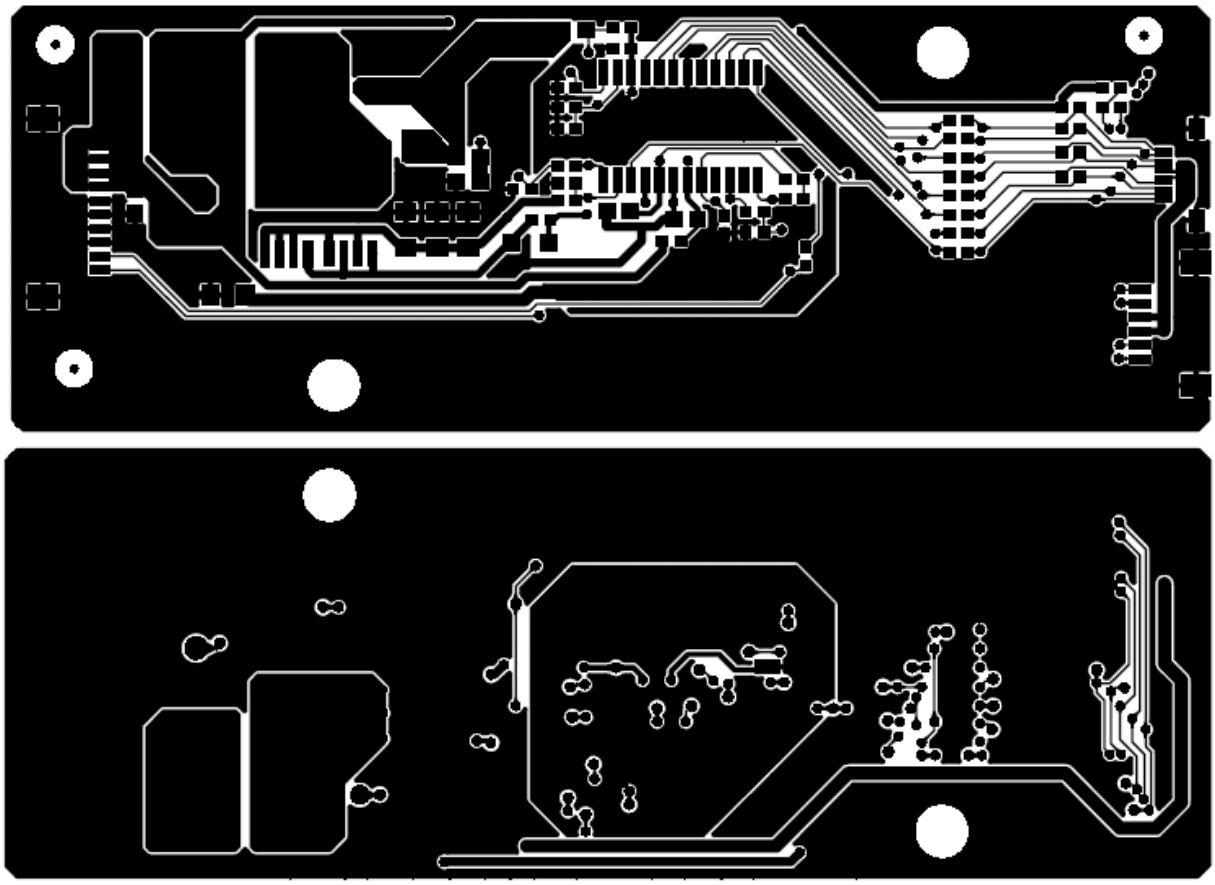
Adapter

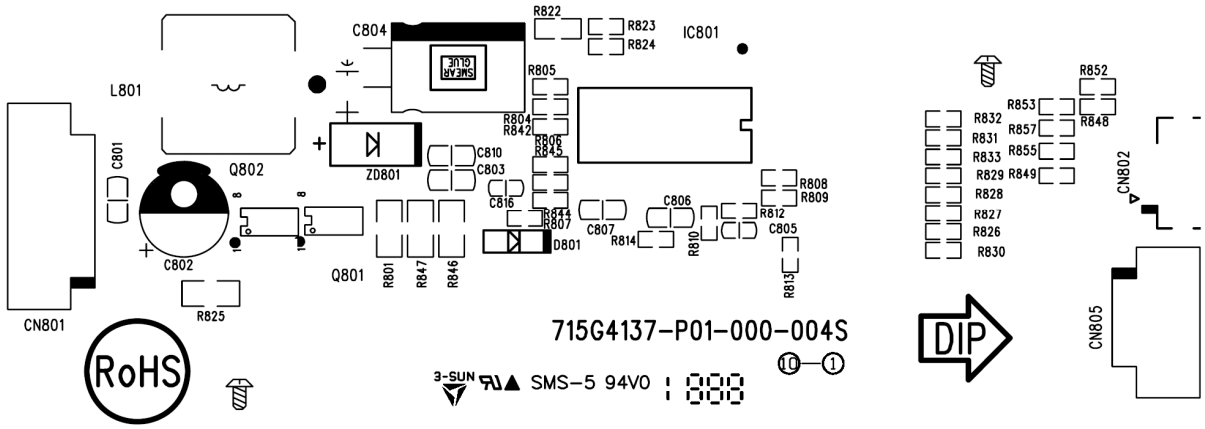
715G3189P02LED001S



Converter

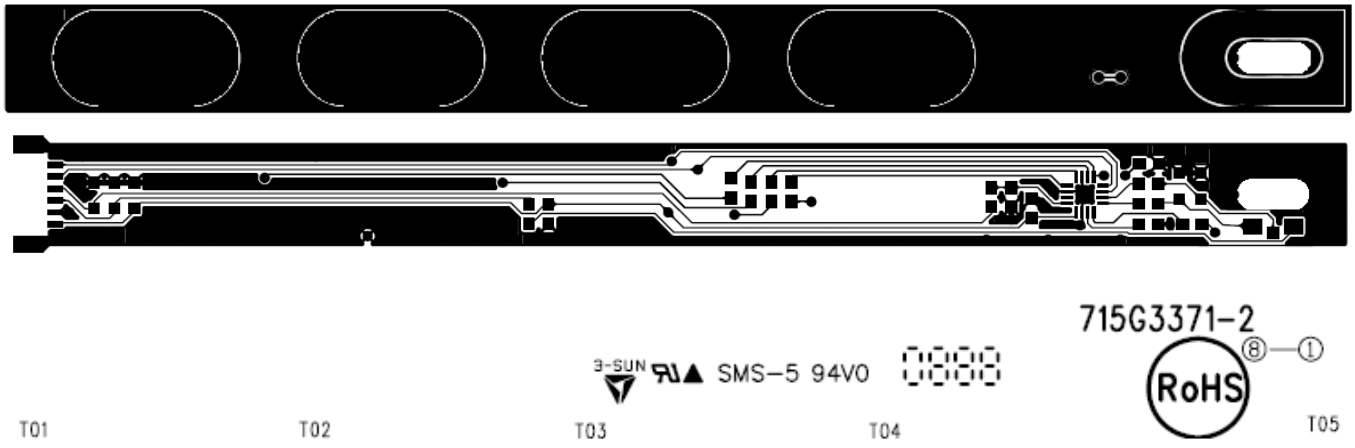
715G4137P01000004S





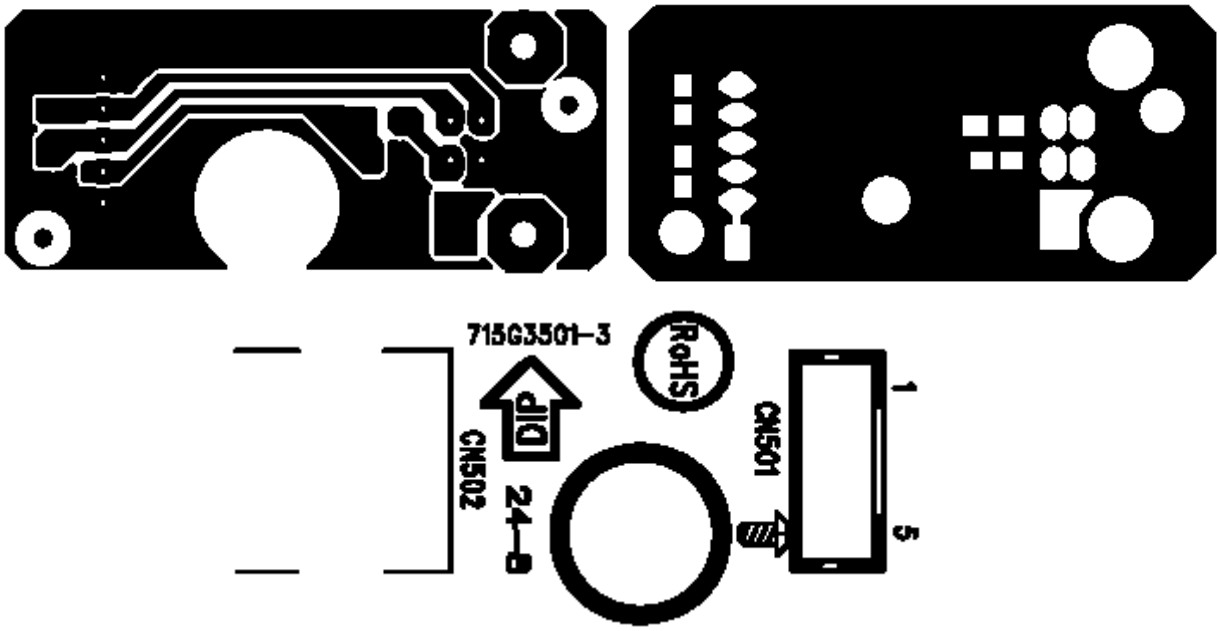
7.3 Key Board

715G3371 2

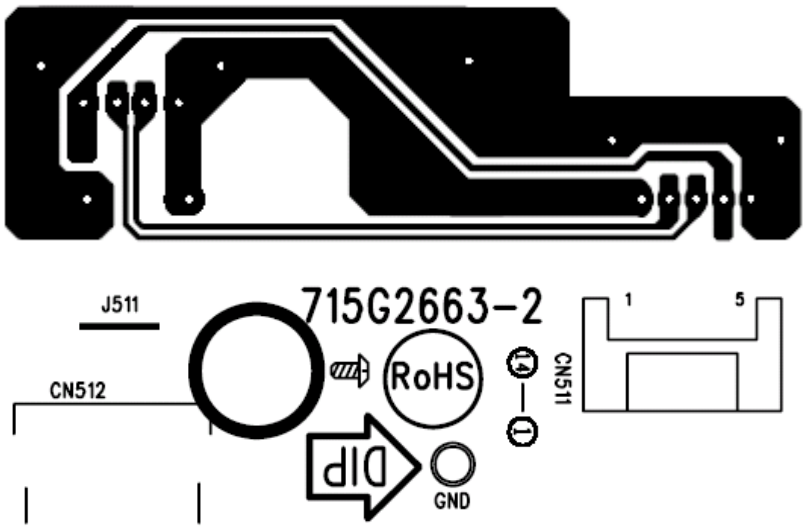


7.4 USB Board

715G3501 3



715G2663 2



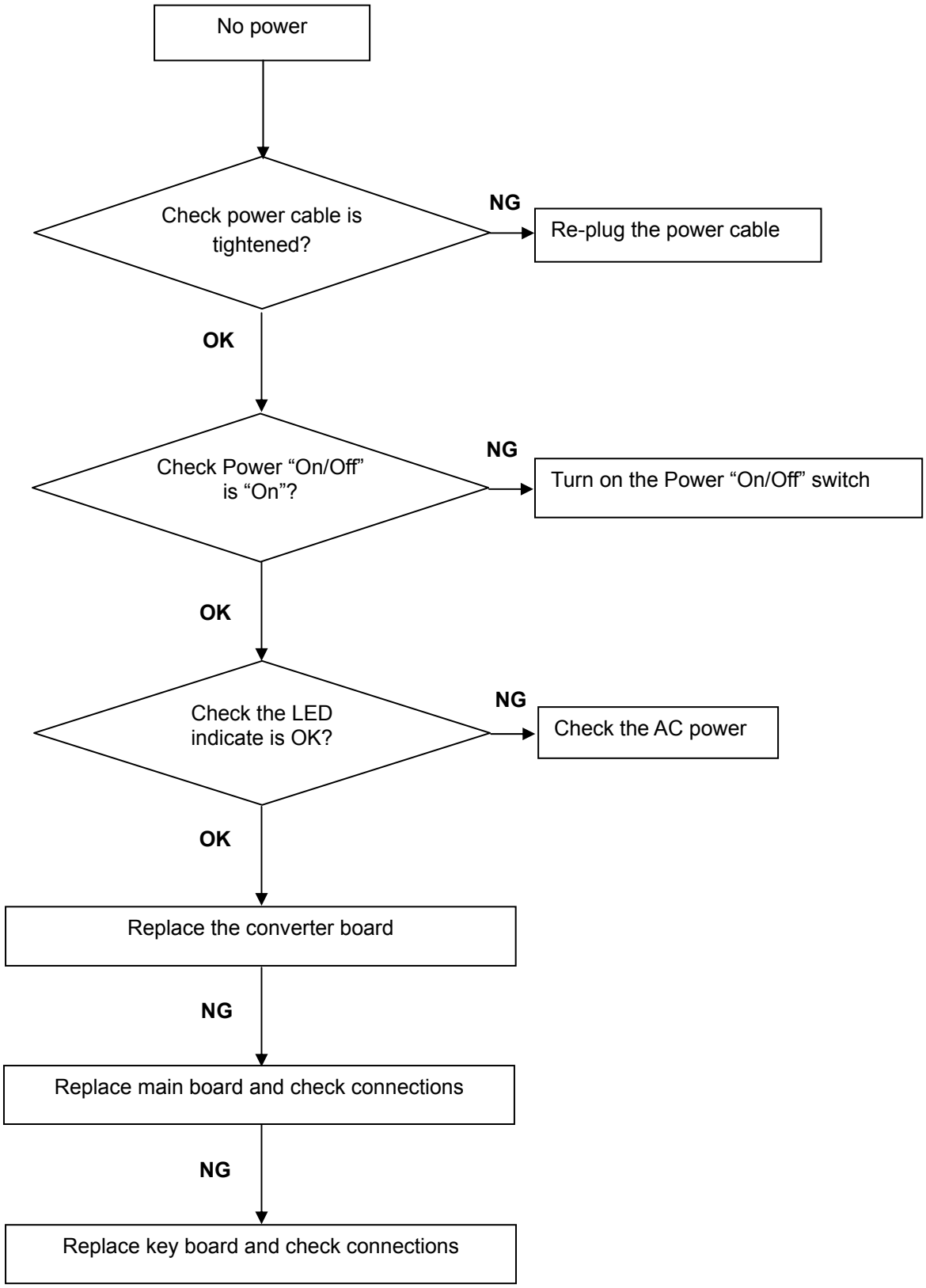
8. Maintainability

8.1 Equipments and Tools Requirement

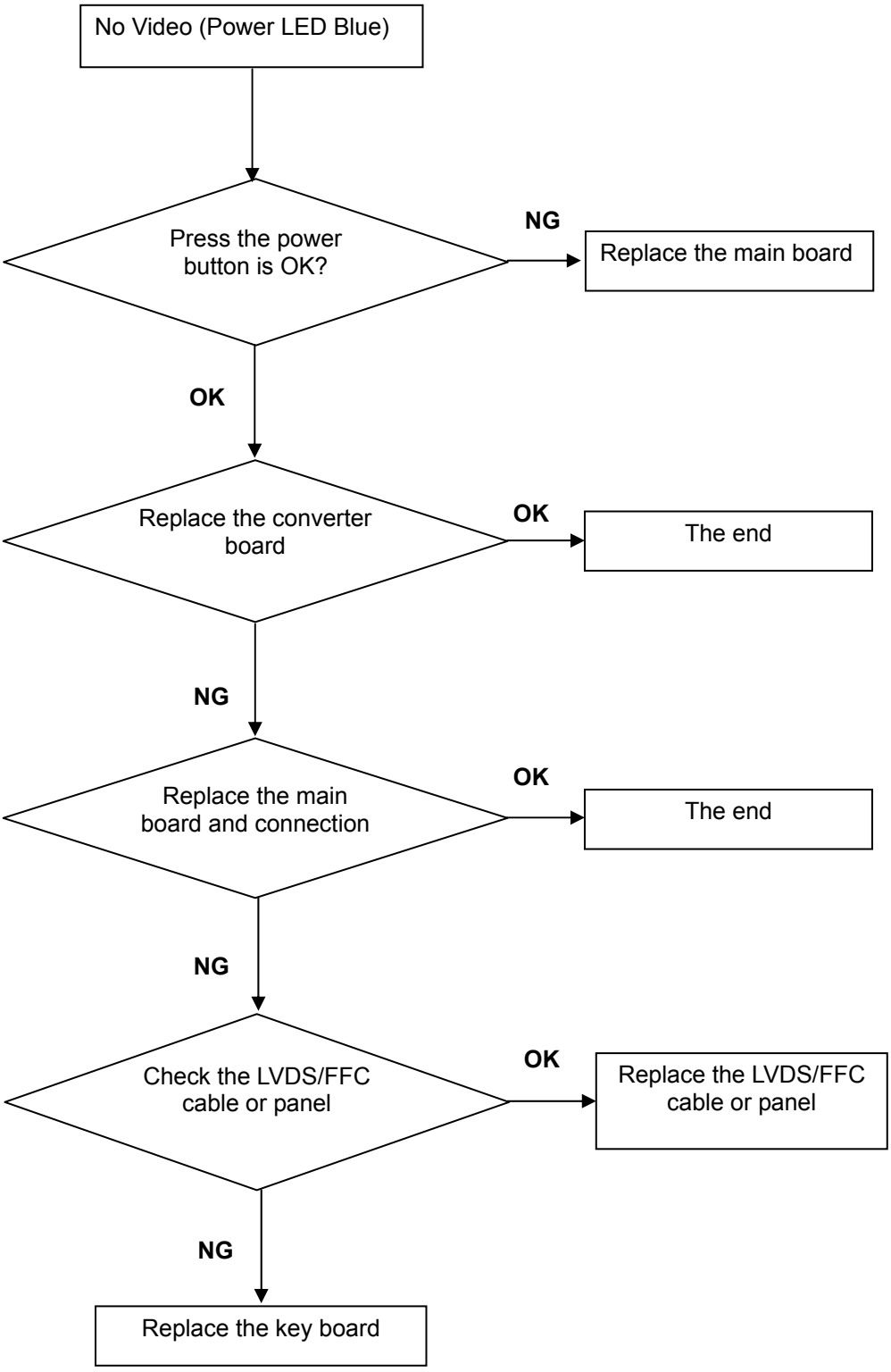
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

8.2 Trouble Shooting

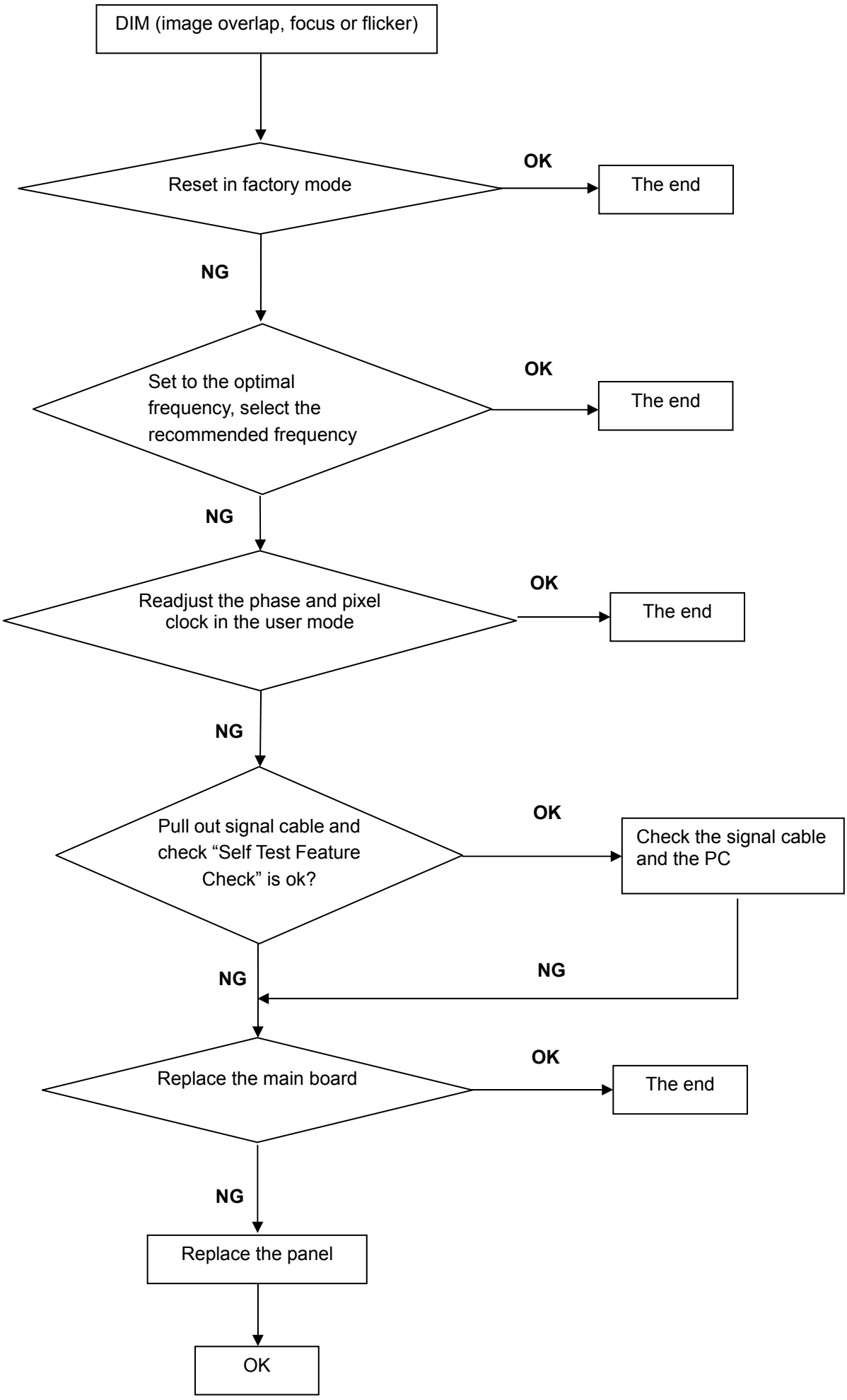
1. No Power



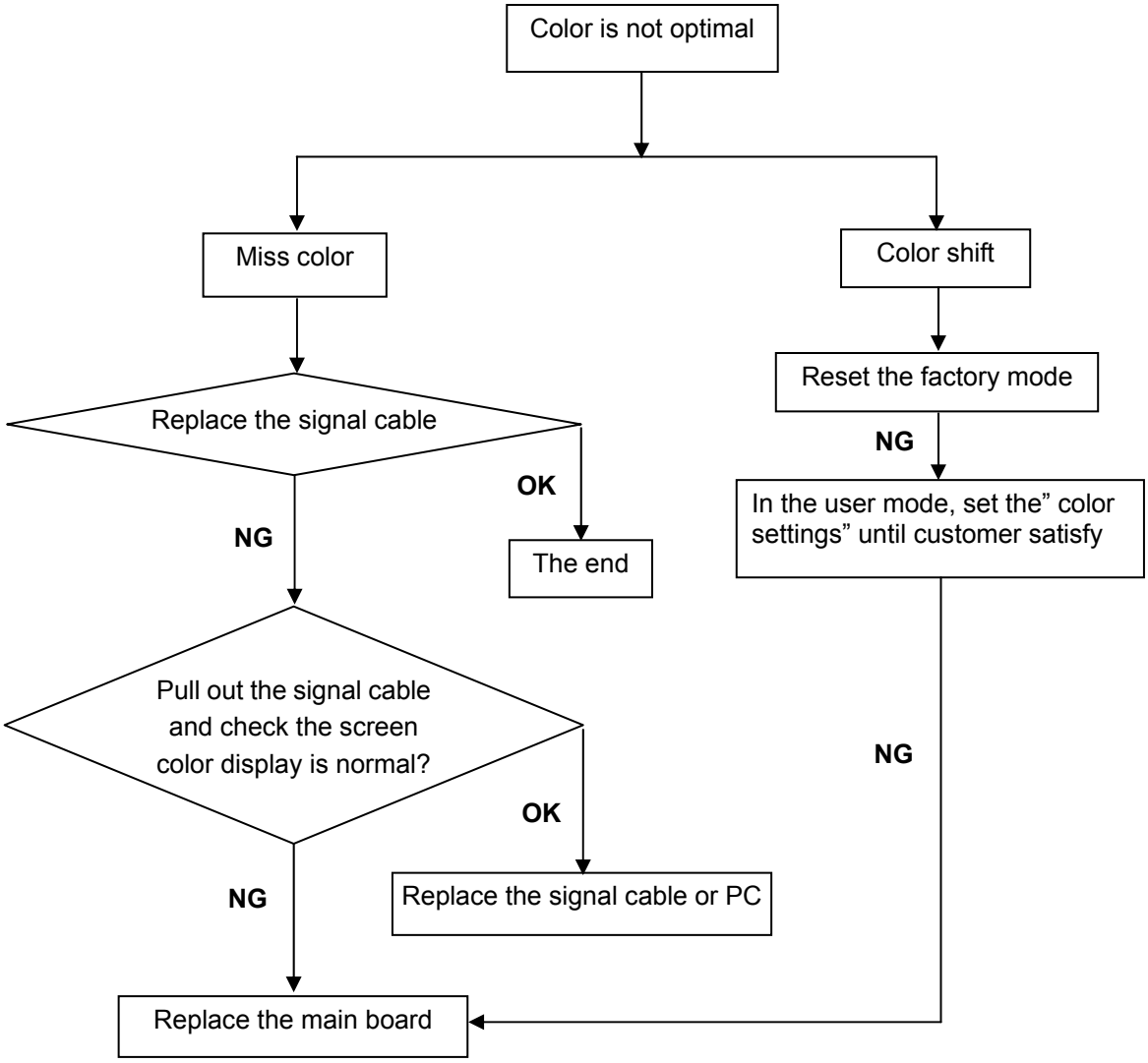
2. No Video (Power LED Blue)



3. DIM


DIM (image overlap, focus or flicker)
Reset in factory mode
OK
The end
NG
Set to the optimal frequency, select the recommended frequency
OK
The end
NG
Readjust the phase and pixel clock in the user mode
OK
The end
NG
Pull out signal cable and check “Self Test Feature Check” is ok?
OK
Check the signal cable and the PC
NG
NG
Replace the main board
OK
The end
NG
Replace the panel
OK

4. Color is not optimal



9.Firmware and DDC Instruction

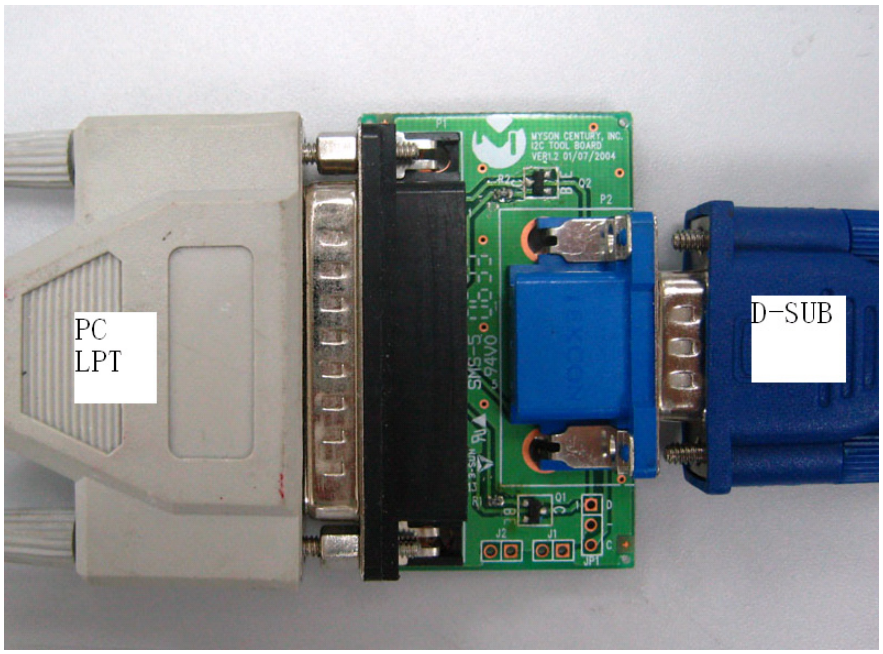
9.1 Firmware Instruction(TSUM IC ISP for exemple TSUMO58GDJ)

1. OPERATION CONDITIONS:

1) An i486 (or above) personal computer or compatible.
2) Microsoft operation system Windows XP.
3) “MSTAR ISP Tool V4.5.0.7.7”programs.
4) Printer cable and VGA cable.
5) ISP board (PN: 715GT039-A).

2. Connection:

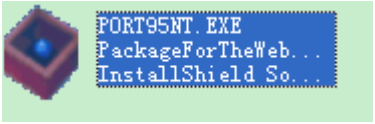
1) LPT cable connect PC and ISP board ;
2)VGA cable connect monitor and ISP board ;
3)Reference picture as below



ISP Board (TPV P/N:715GT039-A)

3.Software list:

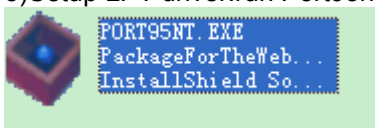
1)LPT driver:



2)MSTAR ISP TOOL:

Eg: **TSUMO58GDJ_LGLM215WF4_20100518_V005_8143.BIN**

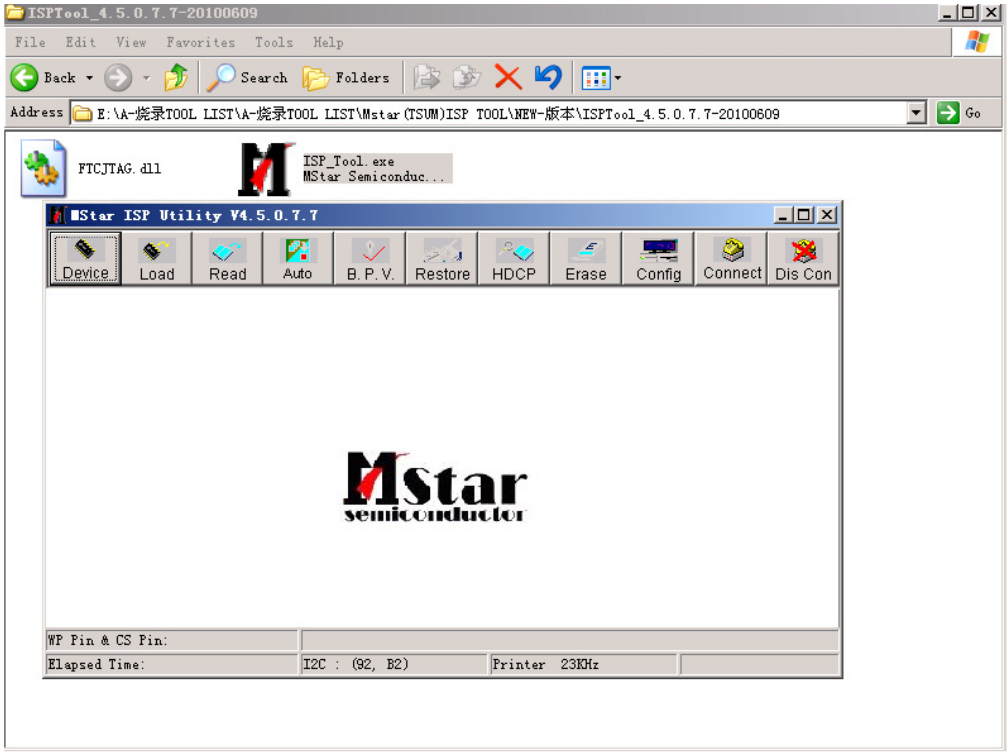
3)Setup LPT driver:run Port95nt icon:



4)USB driver install

4 .Program：

1)Run **MSTAR ISP Tool V4.5.0.7.7**，interface as below:

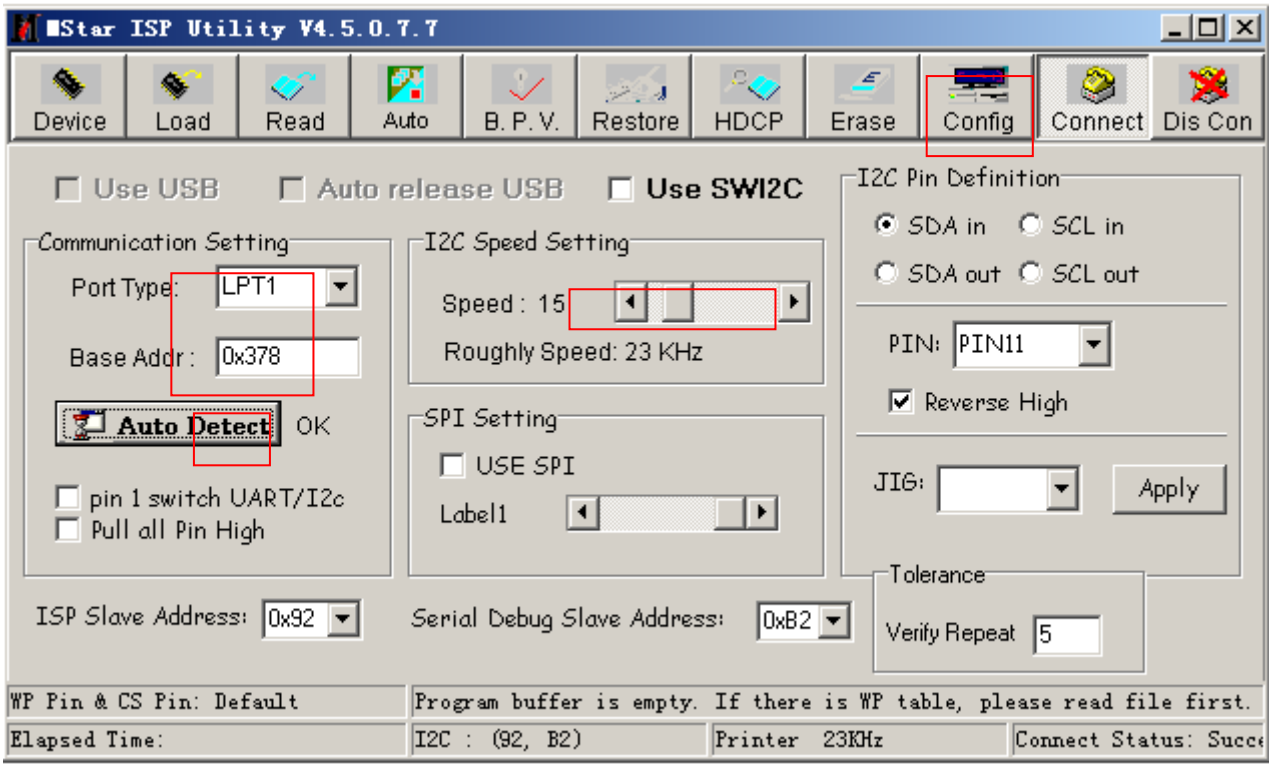


2) Choose **CONFIG** icon ,interface as below :

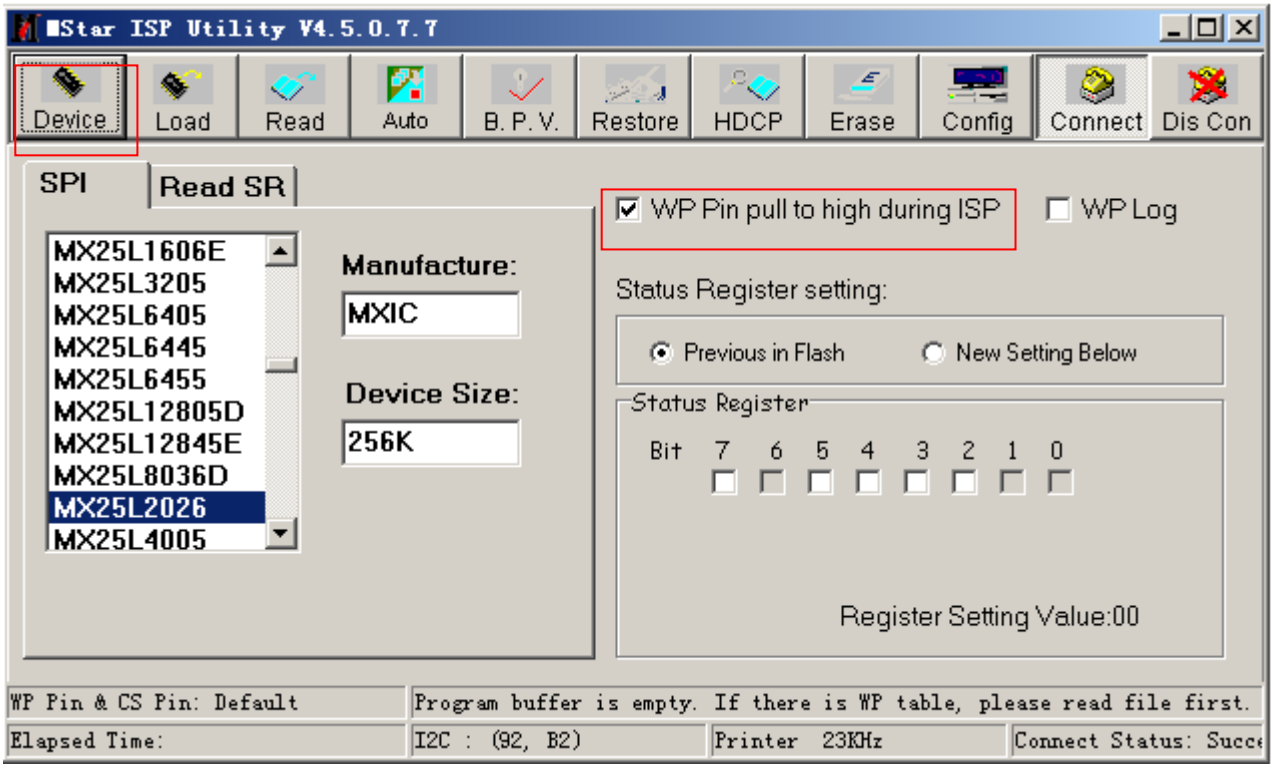
Setting as :

Port type :LPT1

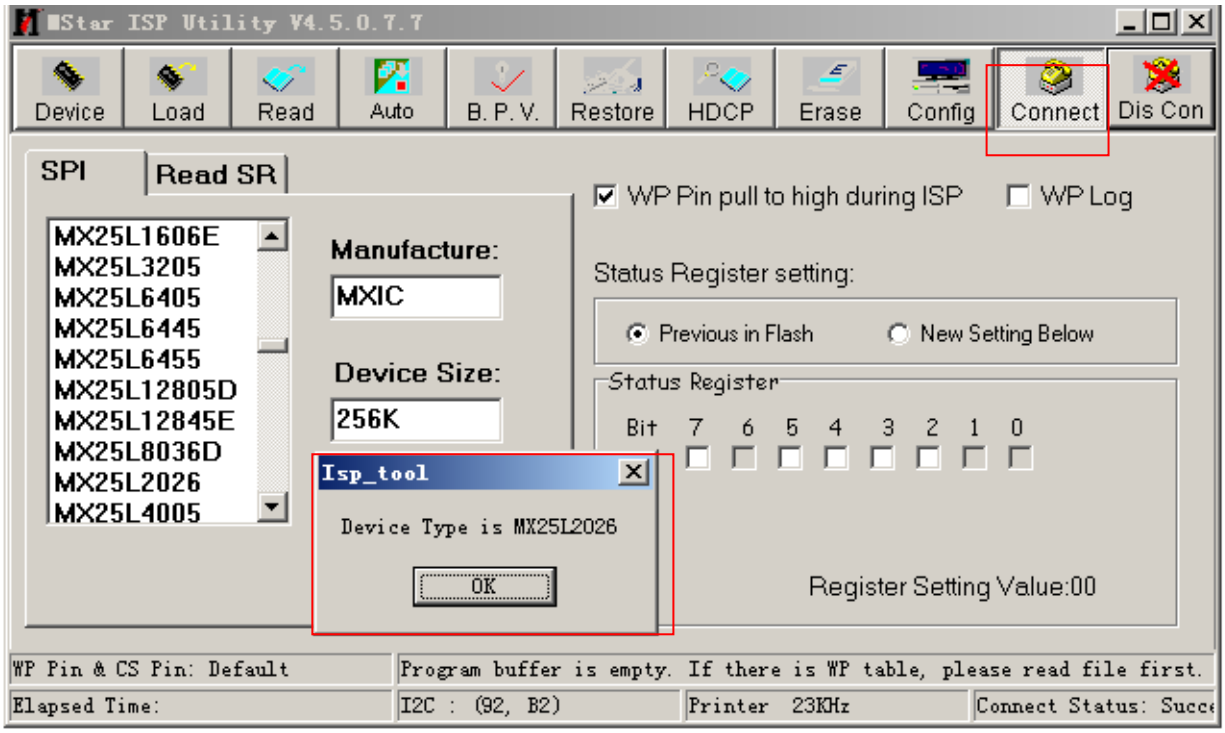
Speed :50KHZ



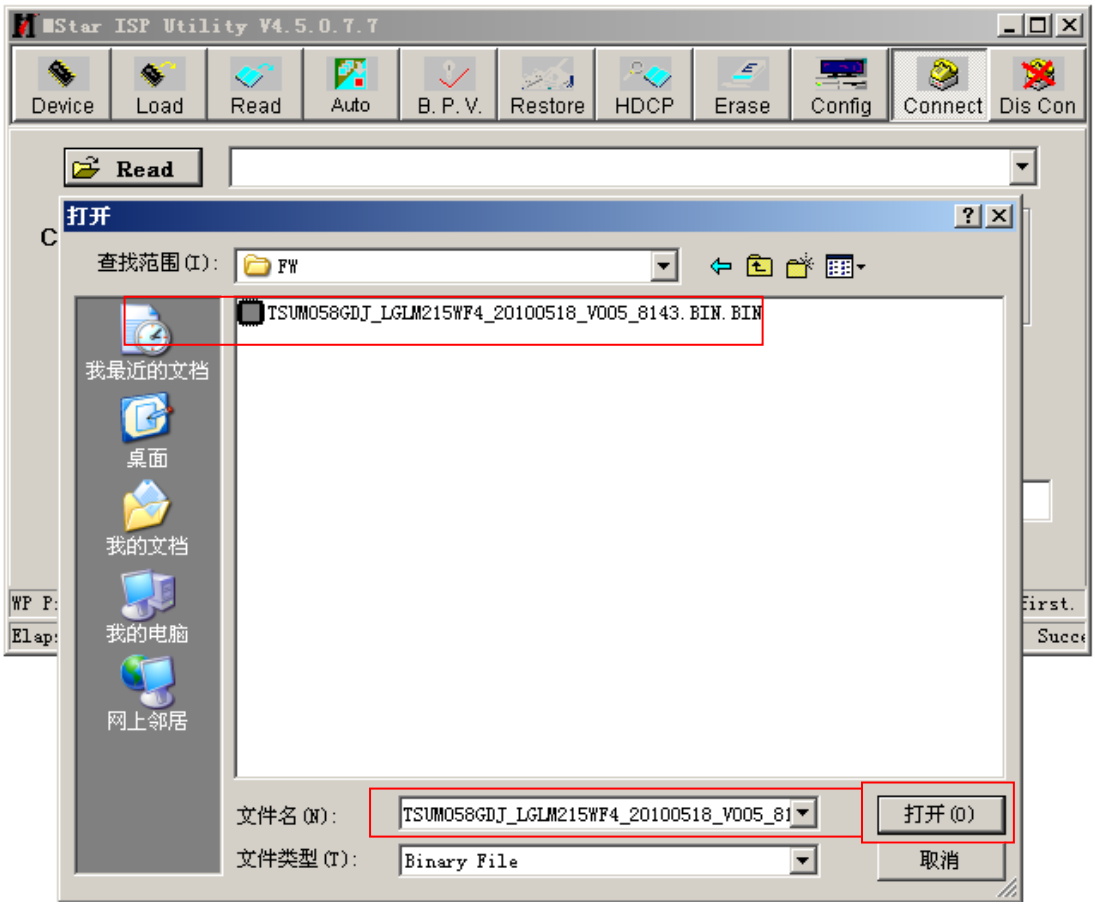
3)Choose DEVICE，and choice **WP Pin pull to high during ISP :**



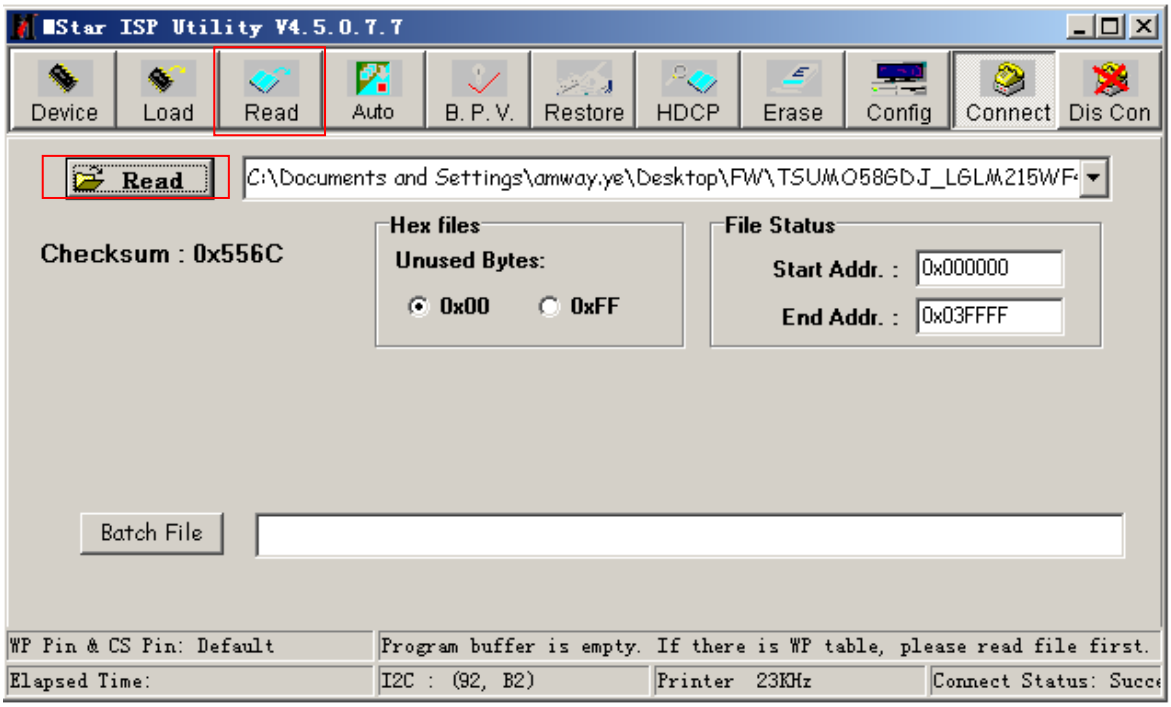
4)Choose CONNECT icon ,and interface show **Device type ,** PC and monitor communications successful, click "OK".



5)Click “Read”, show as follow picture, then choose correct software to click “open.
PS:For exemple **TSUMO58GDJ_LGLM215WF4_20100518_V005_8143.BIN**

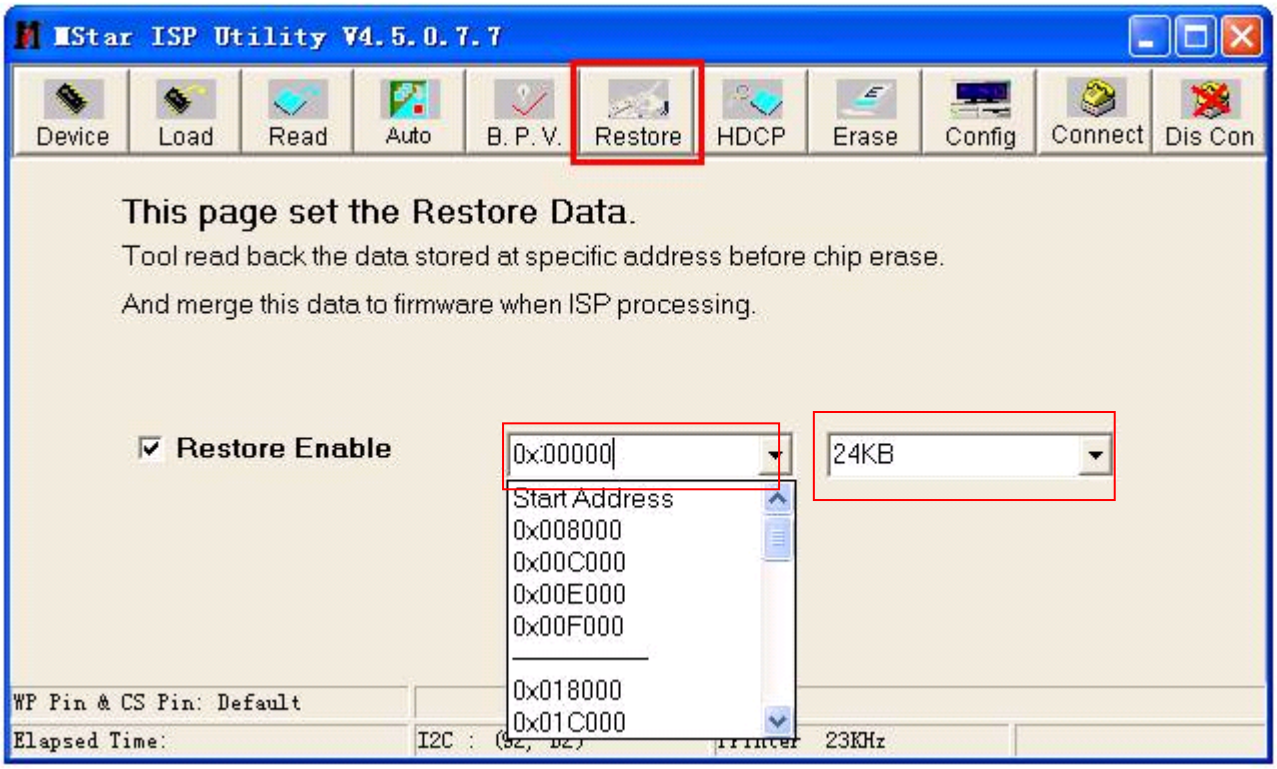


6)Then ,as below :

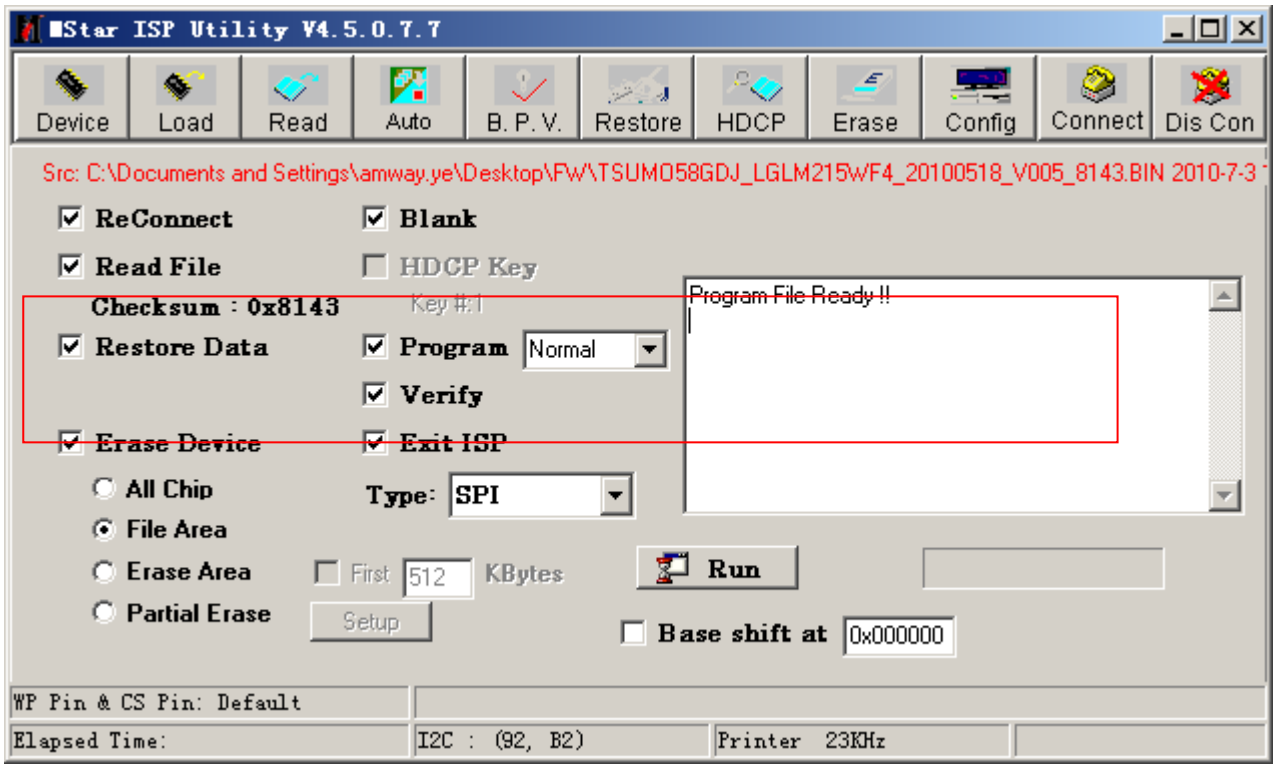


7.

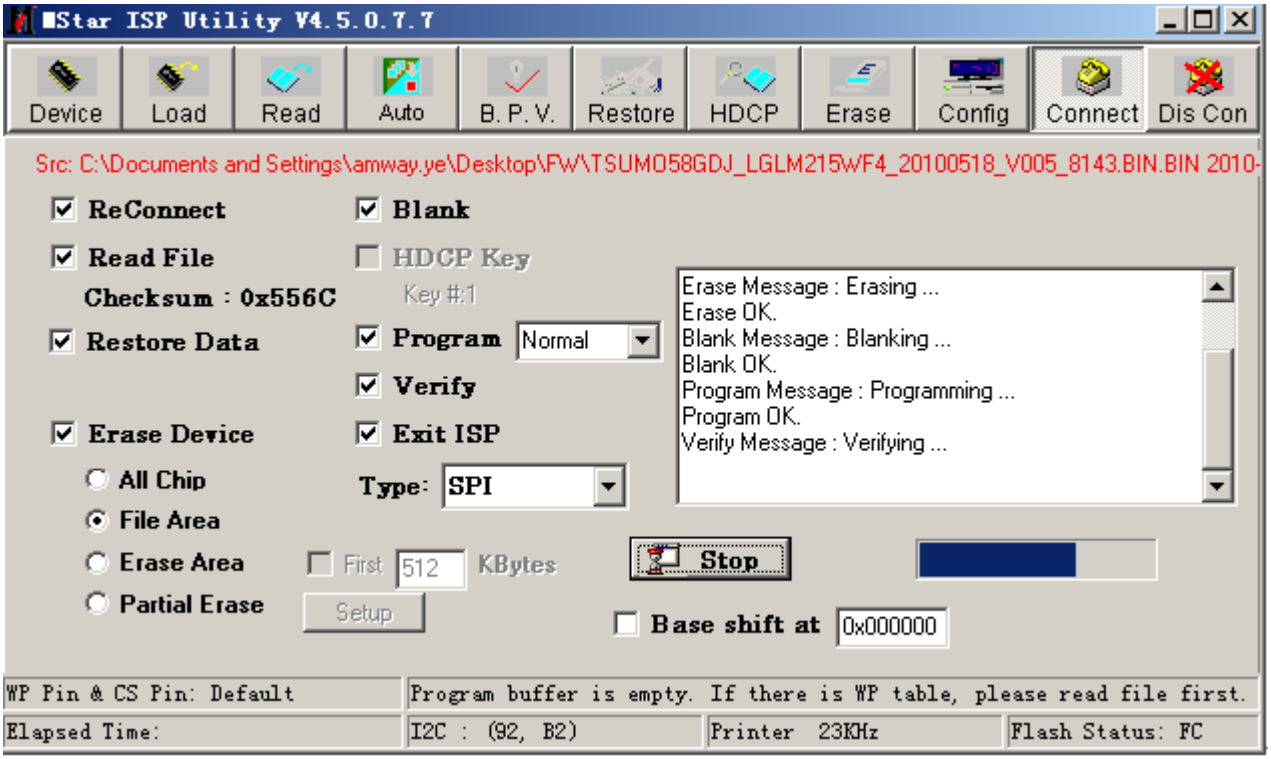
7) Click icon “Restore” as following

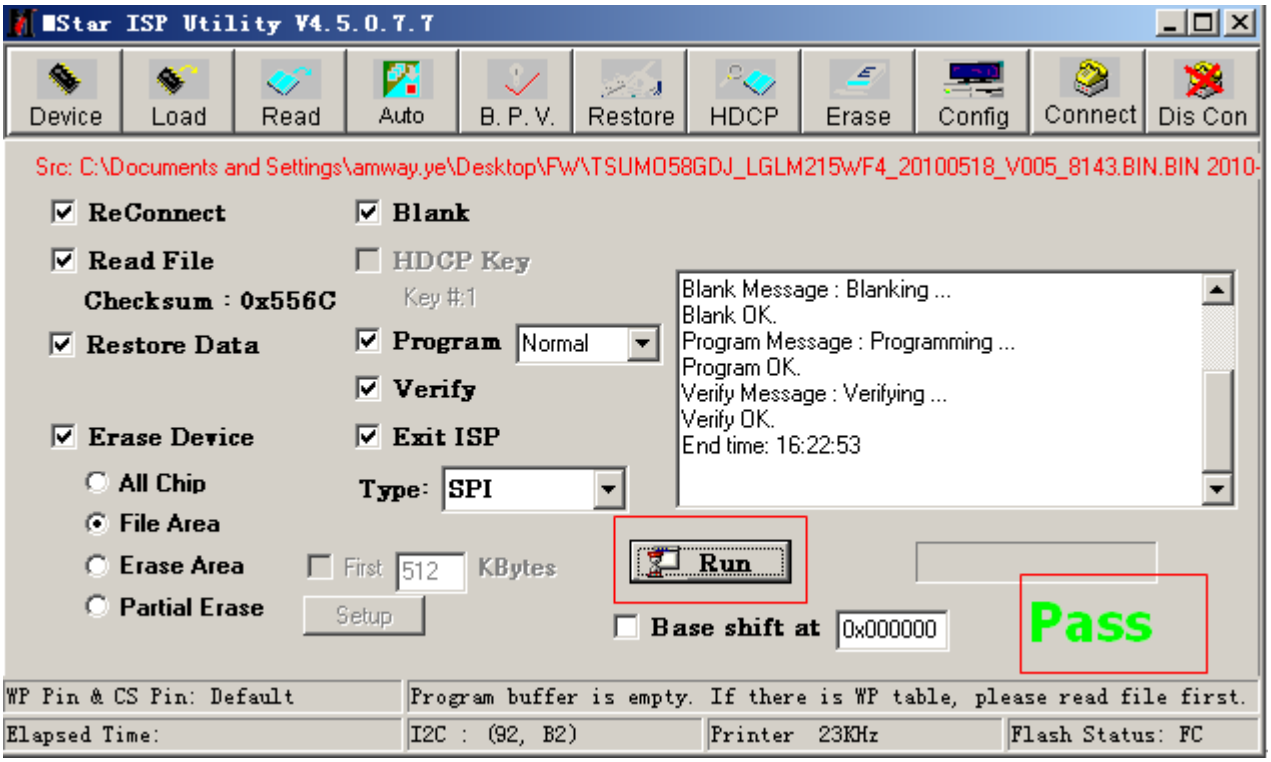


8) Show the interface as follows after press the **AUTO** button



9).Then , press Run icon ,as below,Show Blank OK, Program OK, Verify OK, It's successfully if interface show PASS.





10) AC off, wait about one minute, after the elextricity large capacitance of power board release, then AC on, otherwise, the key button and power button cann't work.

5.Check Software Version and auto color and reset:
You should check the program code is right in factory mode ;(about the method of enter factory mode ,pls reference the service manual)

5.1Auto level :
1)Monitor display gray pattern ;
2)Enter the factory mode ;

3)Choise the AUTO LEVEL icon and run it.
4)Check the gray pattern is clear ;
5)Change to full black pattern , and check the display there is no noise .

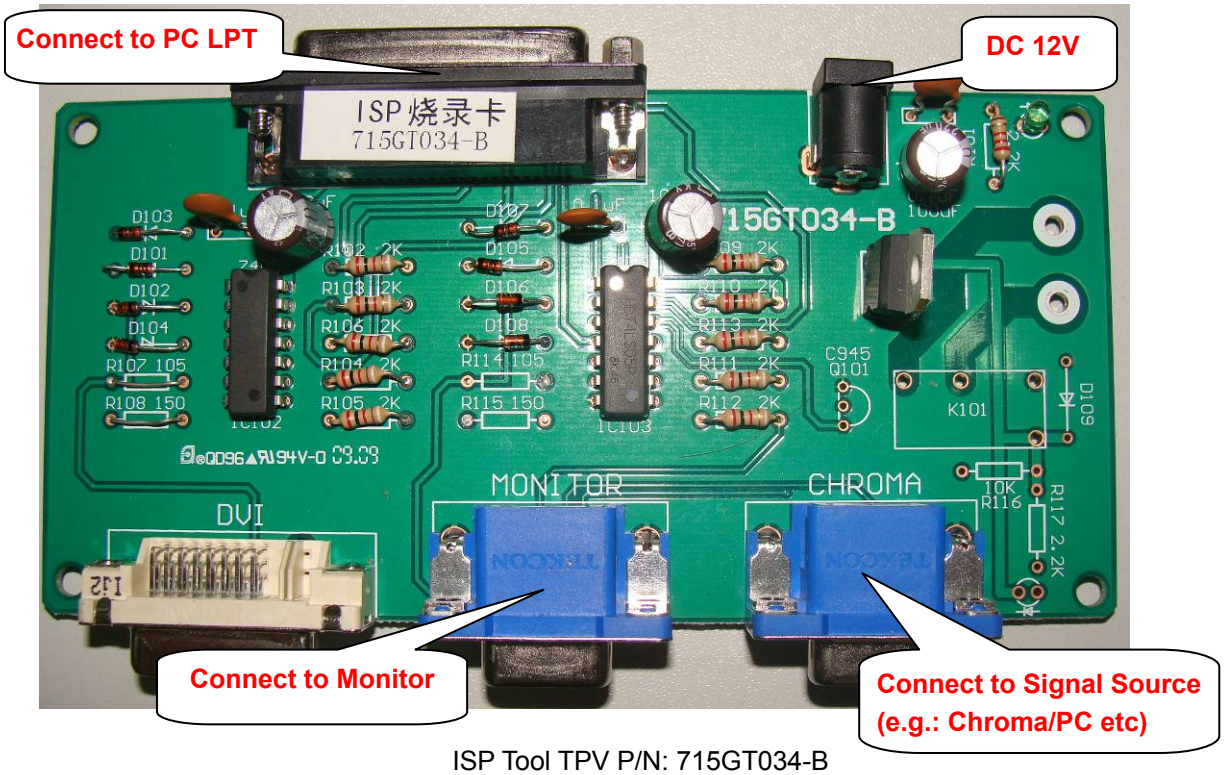
5.2Reset
Monitor would change to default setting after reset .

5.3power off
Monitor must be turned off after rework code.

6：HDCP Write SOP

I. Prepare condition:

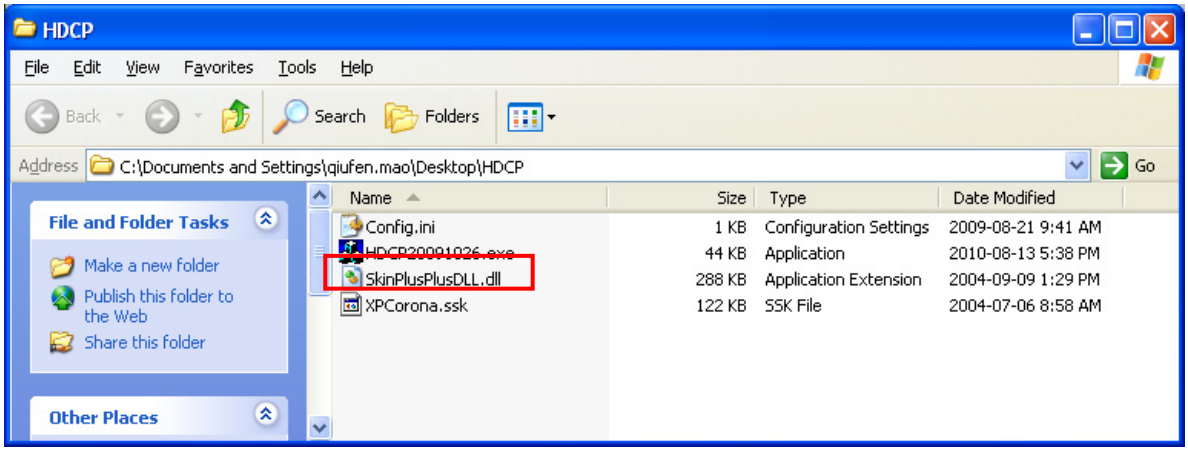
1. Prepare one PC and the system is WIN98/NT/2000/XP, make sure the PC have Print Port.
2. Install Port95nt Software, the way of the install Port95 (LPT PORT drive):
   a. selects the software of Port95nt.exe, and run it,
   b. After install ok, restart the PC.
3. Connect the cable and Jig:
   a. Use the Print cable to connect the PC and HDCP card.
   b. Connect the VGA cable with the ISP record card, the picture of Print cable, VGA cable and ISP card as below:



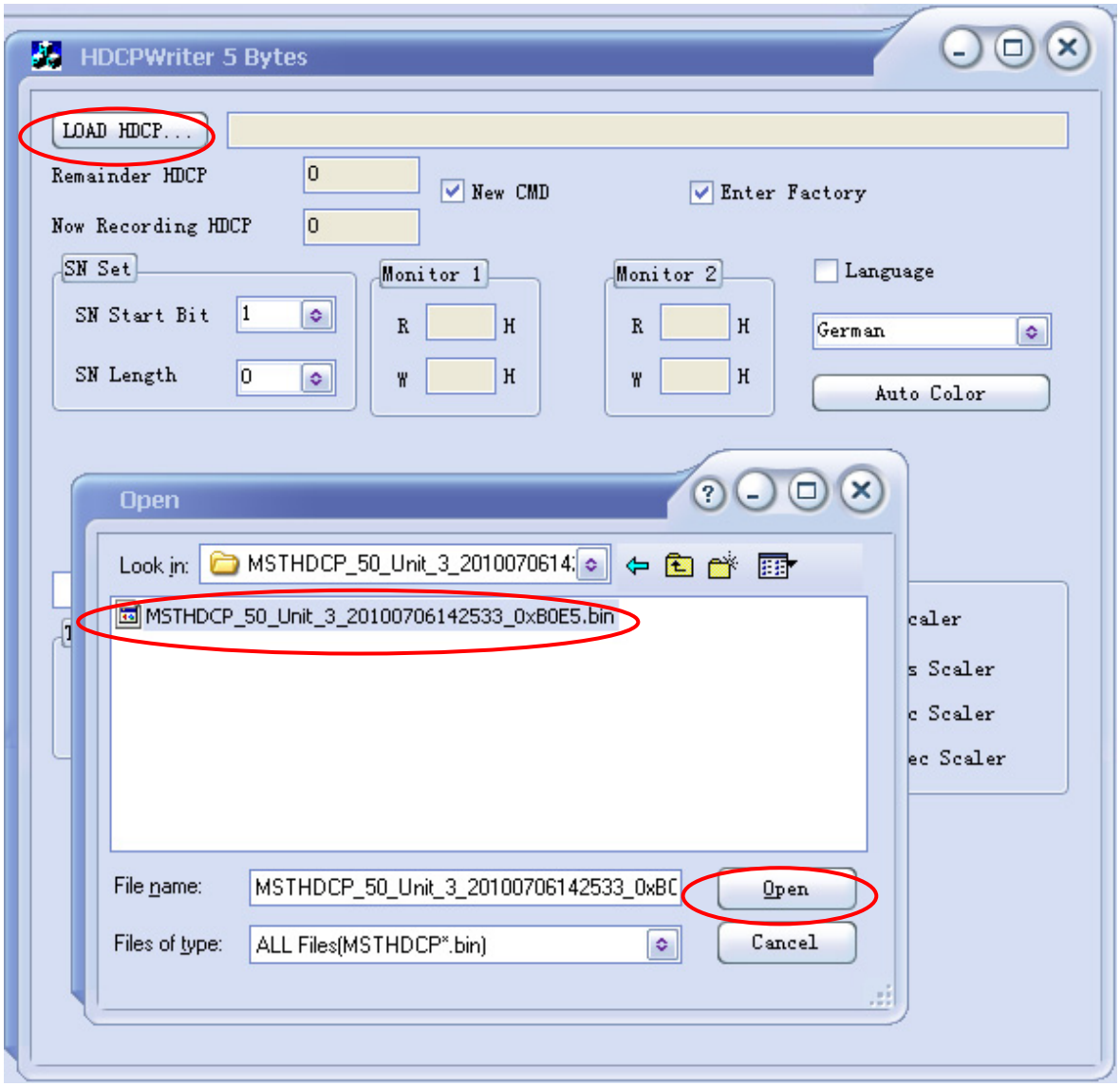
ISP Tool TPV P/N: 715GT034-B

II. HDCP Write Step:

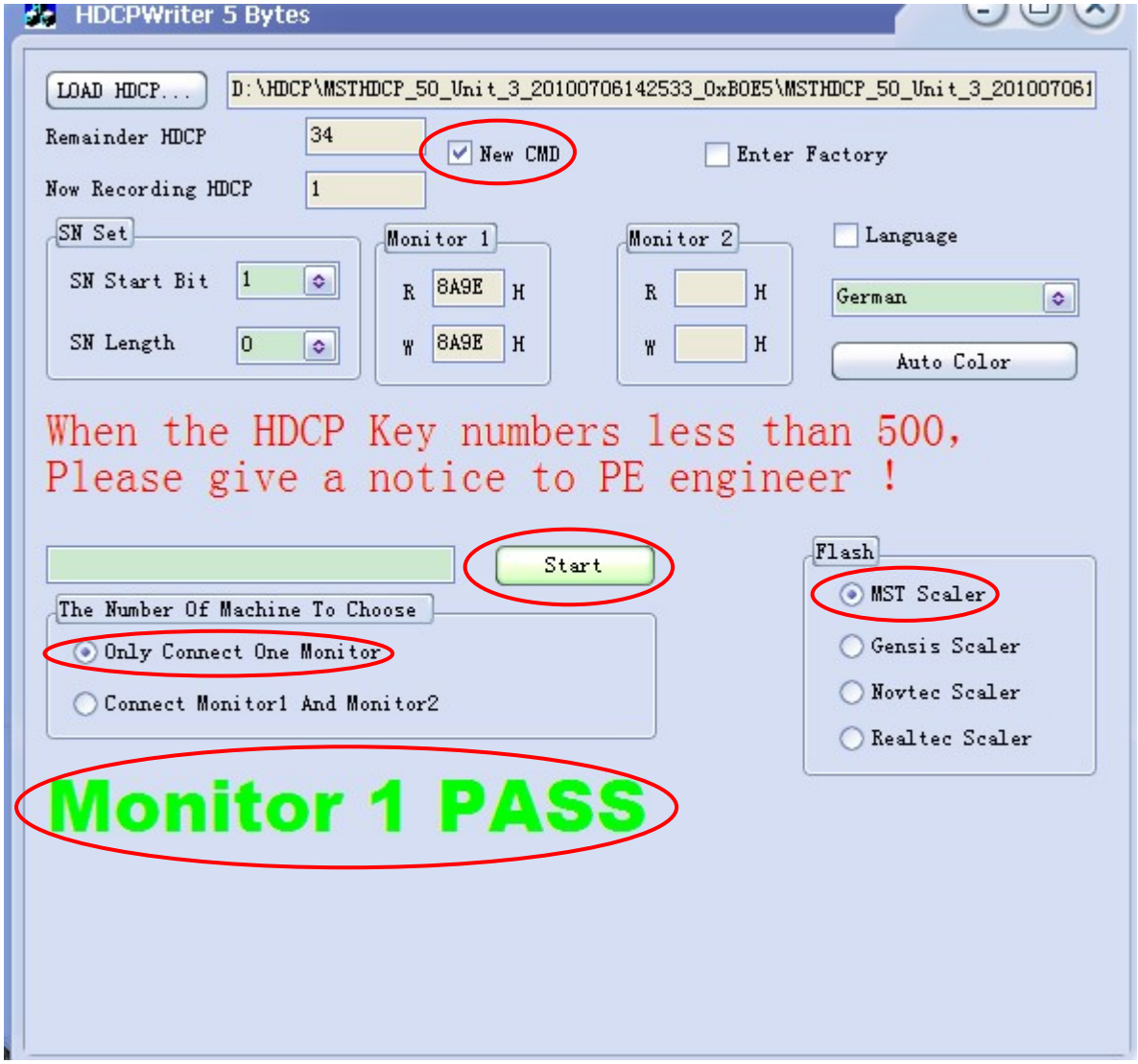
Step1. Double click “HDCP20091026.exe”


HDCP
File Edit View Favorites Tools Help
Back Search Folders
Address C:\Documents and Settings\qiufen.mao\Desktop\HDCP
Go
File and Folder Tasks
Make a new folder
Publish this folder to the Web
Share this folder
Other Places
Name Size Type Date Modified
Config.ini 1 KB Configuration Settings 2009-08-21 9:41 AM
HDCP20091026.exe 44 KB Application 2010-08-13 5:38 PM
SkinPlusPlusDLL.dll 288 KB Application Extension 2004-09-09 1:29 PM
XPCorona.ssk 122 KB SSK File 2004-07-06 8:58 AM

Step2. Click “Load HDCP…”. choose the corresponding “*.BIN” by scaler IC (MST Scaler) ,then click “Open” as below.



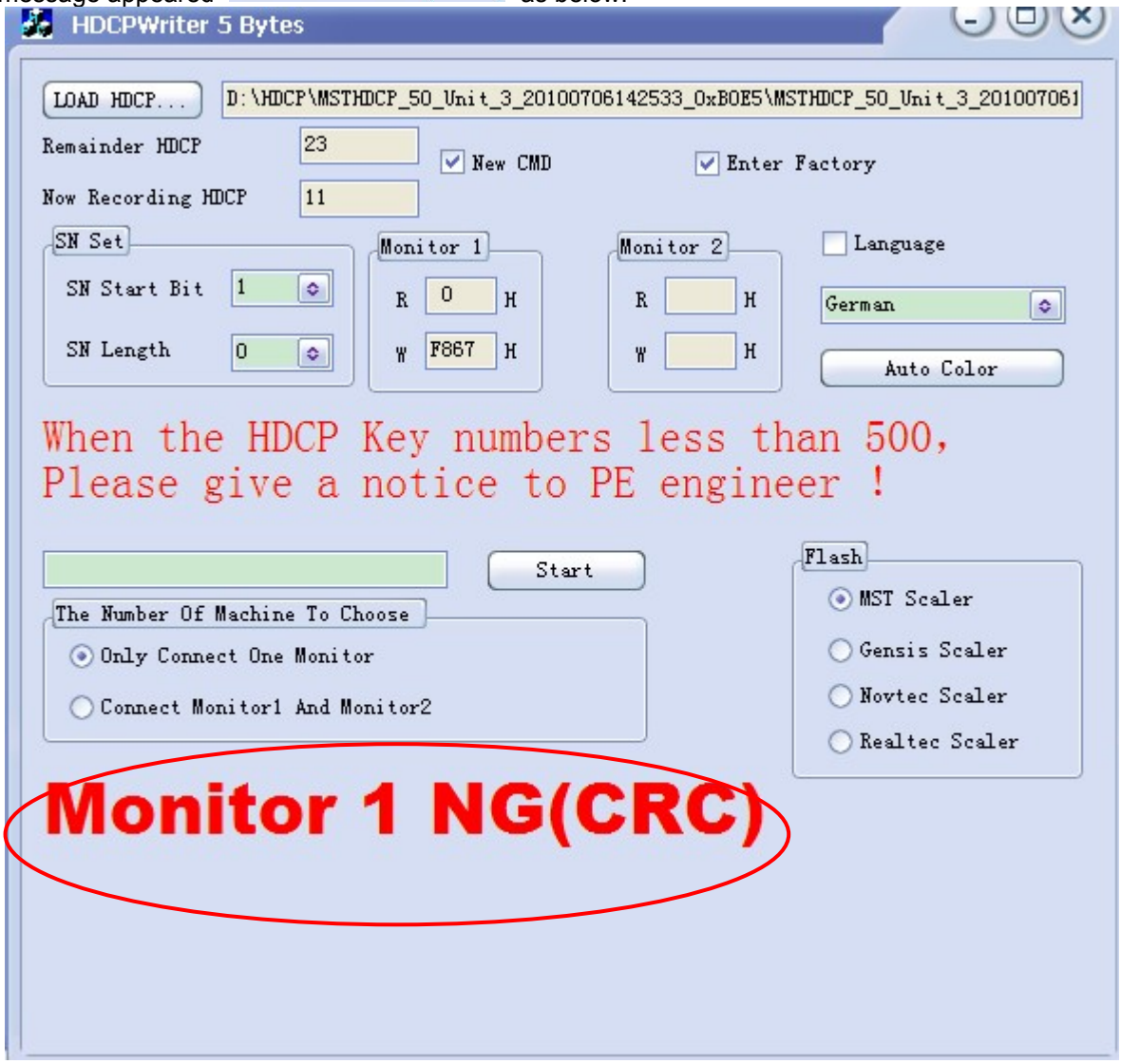
Step3. Pls choose the item remarked in red (i.e.: New CMD/Only Connect One Monitor/MST Scaler), then click "Start" to write HDCP, when display "Monitor 1 PASS" means Write OK.



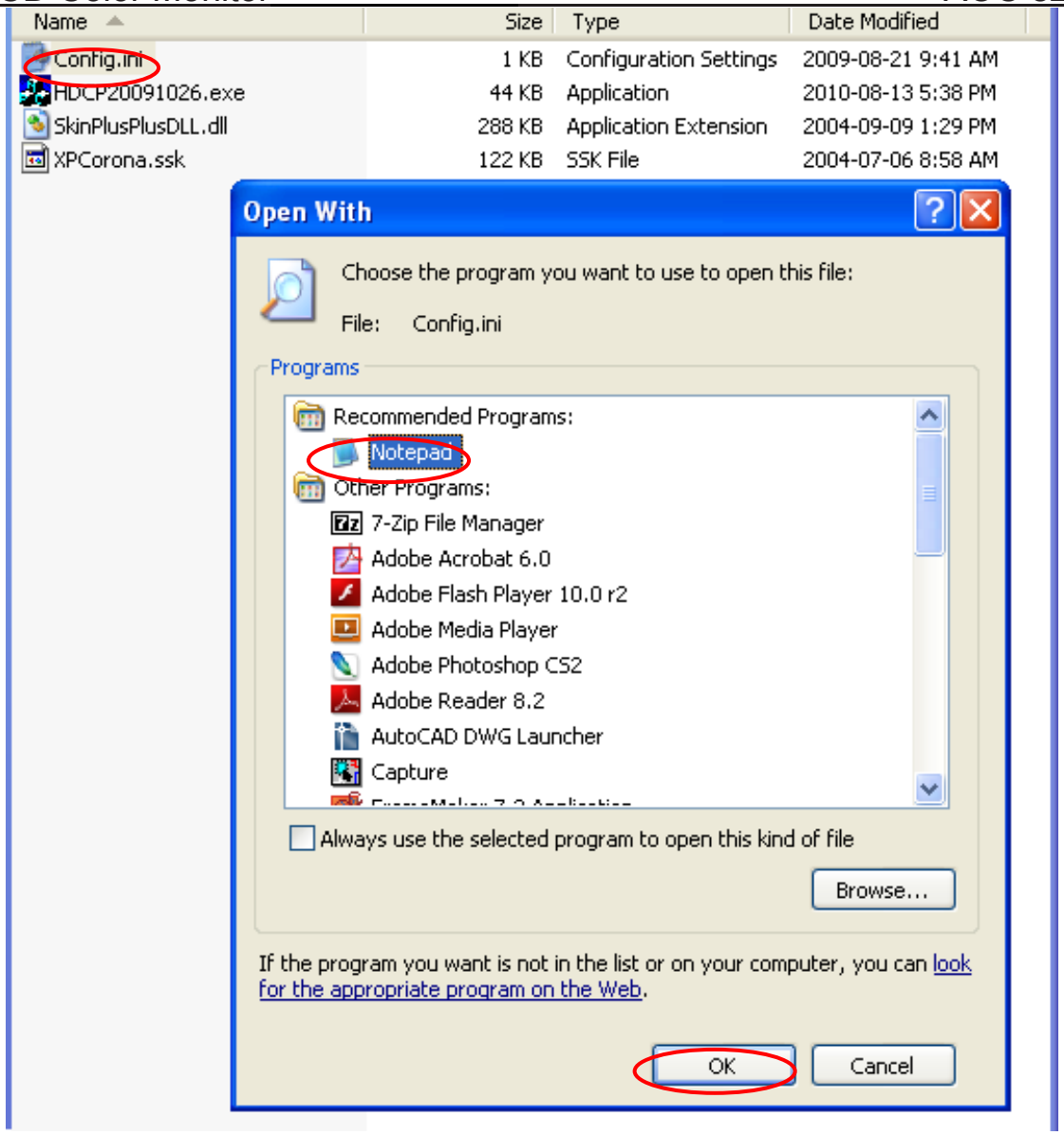
III. Check HDCP.

USE “Blu-Ray Disc” DVD to check whether the monitor with DVI connector displays normally.

If error message appeared “**Monitor 1 NG(CRC)**” as below:



1. Check whether the HDCP writer is correct.
2. Check whether the tool is correct or not, and check the connection between PC, Monitor and tool. In addition, check whether the tool’s power supply is available.
3. If still no work, pls modify the “config.ini” as below, and then try again.
   Modify Step: Right click “config.ini”-> Open with “Notepad”->”OK”-> Modify the HDCP value (350->500, 150->300, 500->700)->Save.
   PS: You can also open “config.ini” directly if you have opened it through “Open with ‘Notepad’ ” before.


Name
Size
Type
Date Modified
Config.ini
1 KB
Configuration Settings
2009-08-21 9:41 AM
HDCP20091026.exe
44 KB
Application
2010-08-13 5:38 PM
SkinPlusPlusDLL.dll
288 KB
Application Extension
2004-09-09 1:29 PM
XPCorona.ssk
122 KB
SSK File
2004-07-06 8:58 AM
Open With
Choose the program you want to use to open this file:
File: Config.ini
Programs
Recommended Programs:
Notepad
Other Programs:
7-Zip File Manager
Adobe Acrobat 6.0
Adobe Flash Player 10.0 r2
Adobe Media Player
Adobe Photoshop CS2
Adobe Reader 8.2
AutoCAD DWG Launcher
Capture
Always use the selected program to open this kind of file
Browse...
If the program you want is not in the list or on your computer, you can look for the appropriate program on the Web.
OK
Cancel

Config.ini - Notepad

File Edit Format View Help

```
[Cmd]
        Cmd_Class=1

[Language]
        WriteLanguageFlag=0
        LanguageType=German
        SelectLanguageDelay=300

[Auto]
        EnterFactoryFlag=1
        EnterFactoryDelay=200

        AutoFlag=0
        AutoDelay=1000

[HDCP]
        SendHDCPLengthDelay=350
        SendHDCPDataDelay=150
        CheckHDCPCRCDelay=500
        DatatocrcDaley=200
        m_SelectScaler=0
```

350 ->500
150 ->300
500 ->700

Config.ini - Notepad

File Edit Format View Help

```
[Cmd]
        Cmd_Class=1

[Language]
        WriteLanguageFlag=0
        LanguageType=German
        SelectLanguageDelay=300

[Auto]
        EnterFactoryFlag=1
        EnterFactoryDelay=200

        AutoFlag=0
        AutoDelay=1000

[HDCP]
        SendHDCPLengthDelay=500
        SendHDCPDataDelay=300
        CheckHDCPCRCDelay=700
        DatatocrcDaley=200
        m_SelectScaler=0
```

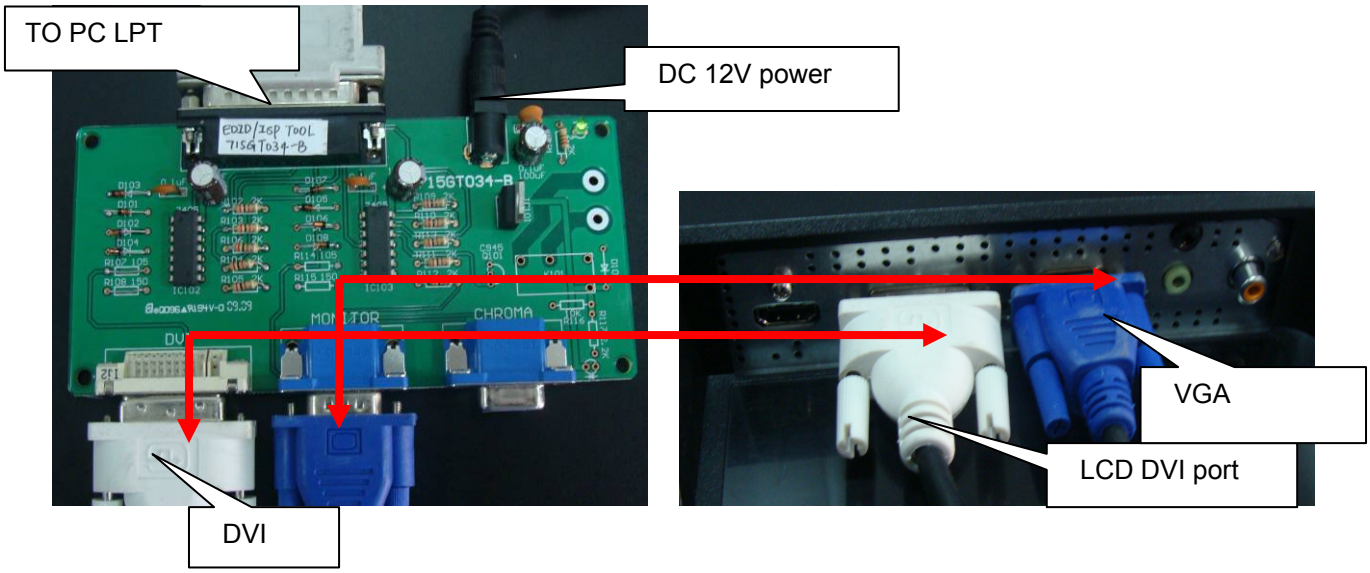
9.2 DDC Instruction

Tool list:

1. DDC board:715GT034-B
2. Software (WA.DAT&WD.DAT&*. CONFIG.INI)
3. LPT driver software
4. LPT cable, D-SUB CABLE ,DVI CABLE and DVI to HDMI CABLE
5. 12V(Adapter)
6. TPVDDCHDMI and TPVDDC6.0
7. PC
8. **For example:e2239Fwt**

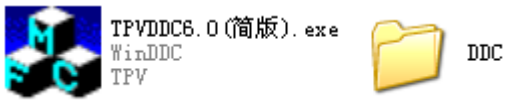
Tool picture

For VGA&DVI BURNING: DDC Board as the follow picture:



Install software:

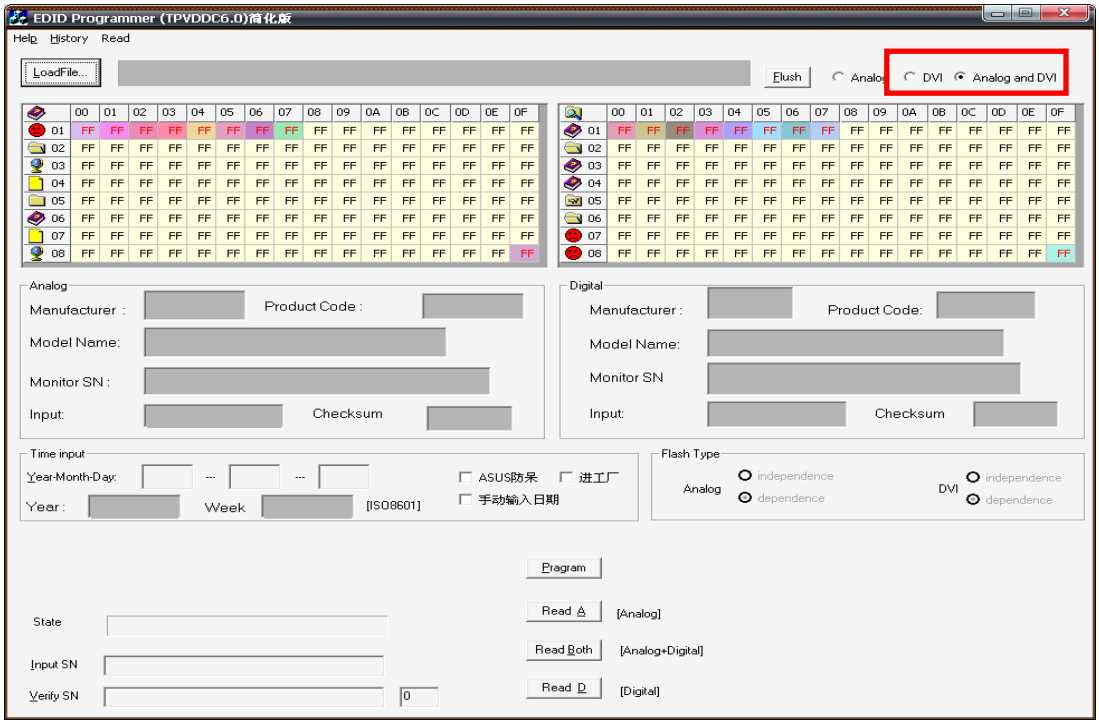
Note:Burning softsare and EDID data must be put in the same folder as follow picture:



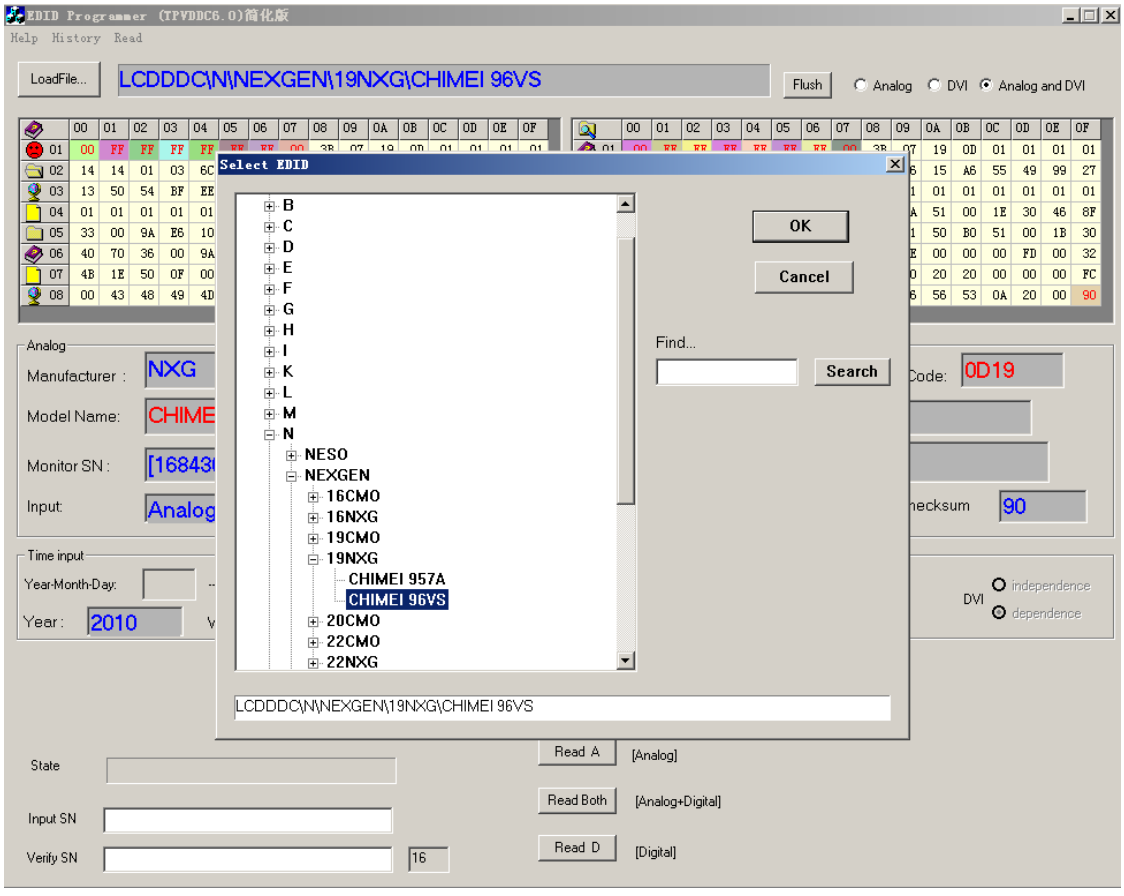
VGA&DVI Burning:

1.Double-click the icon “ ” to install Port95nt print driver, and then restart the computer.

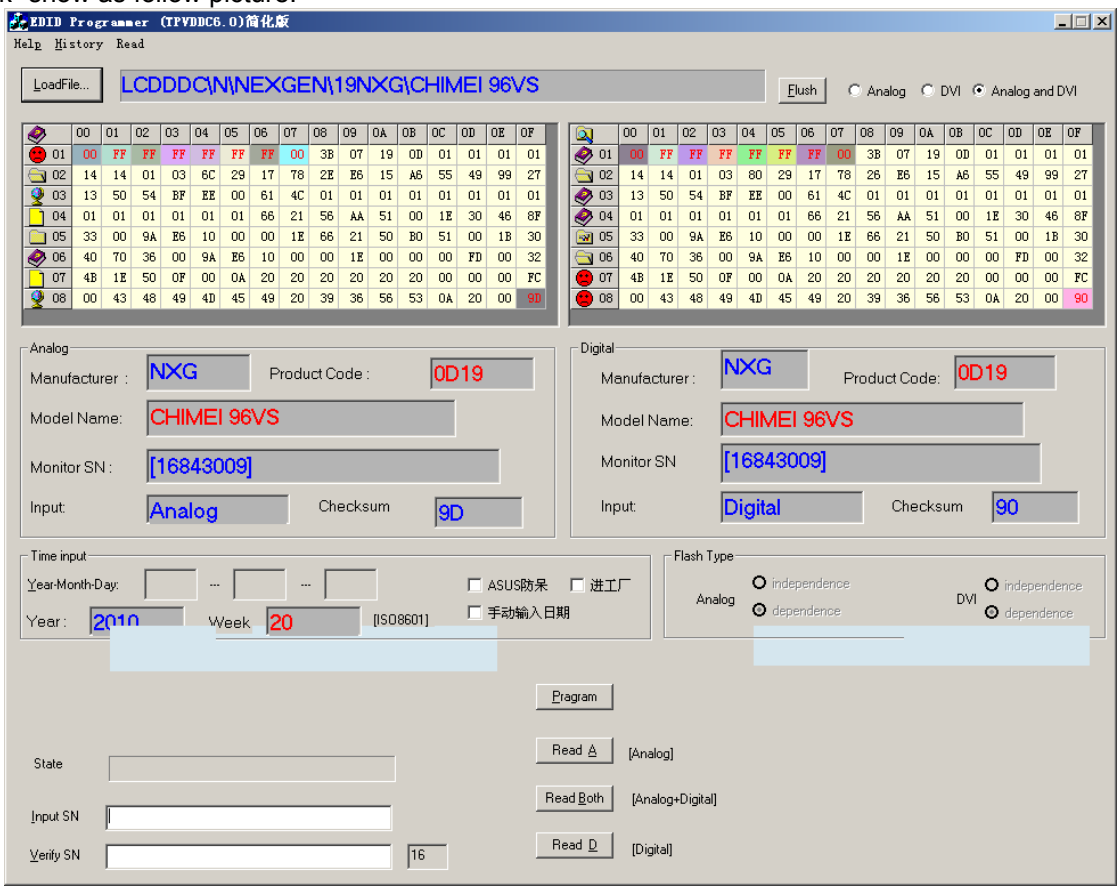
Double-click TPVDDC6.0(简版).exe , select “Analog and DVI” show as follow picture



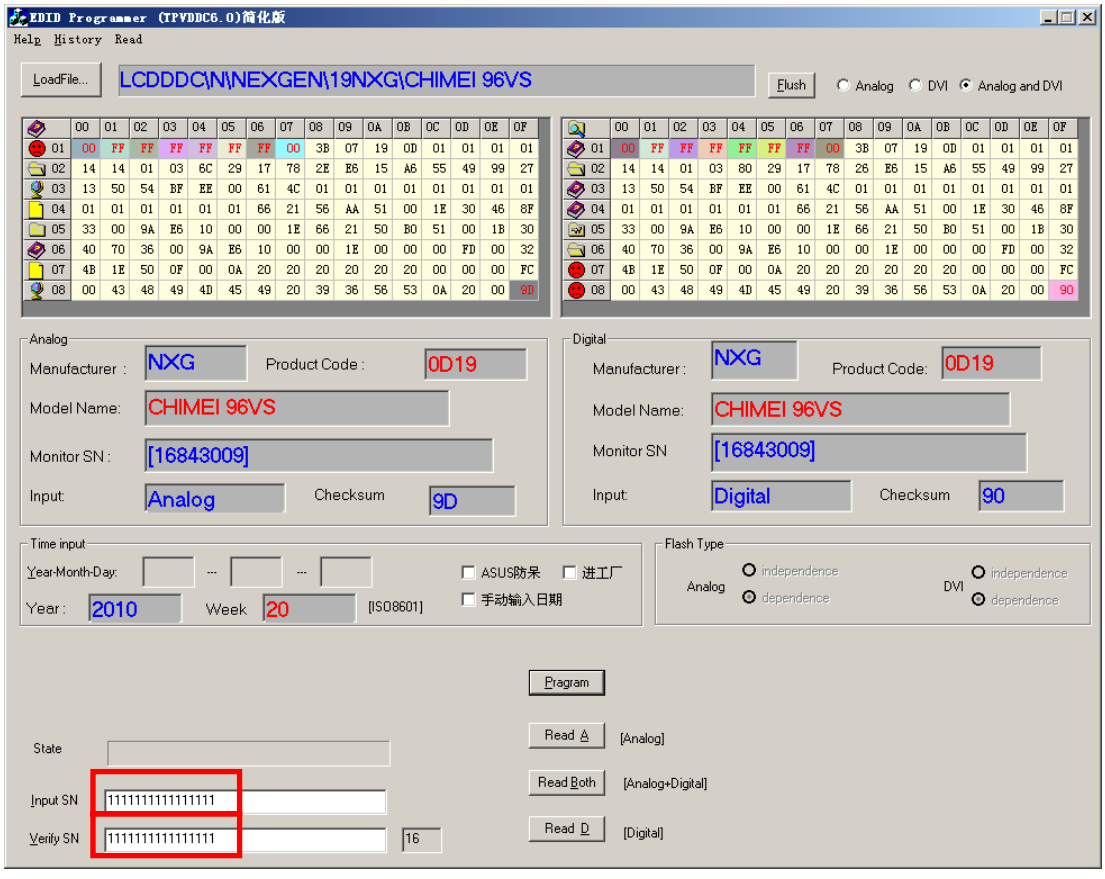
2. Click “Load file” and select as follow picture.then click “LCDDDC”
EX: DDCModelName:CHIMEI96VS



3. Click “ok” show as follow picture.

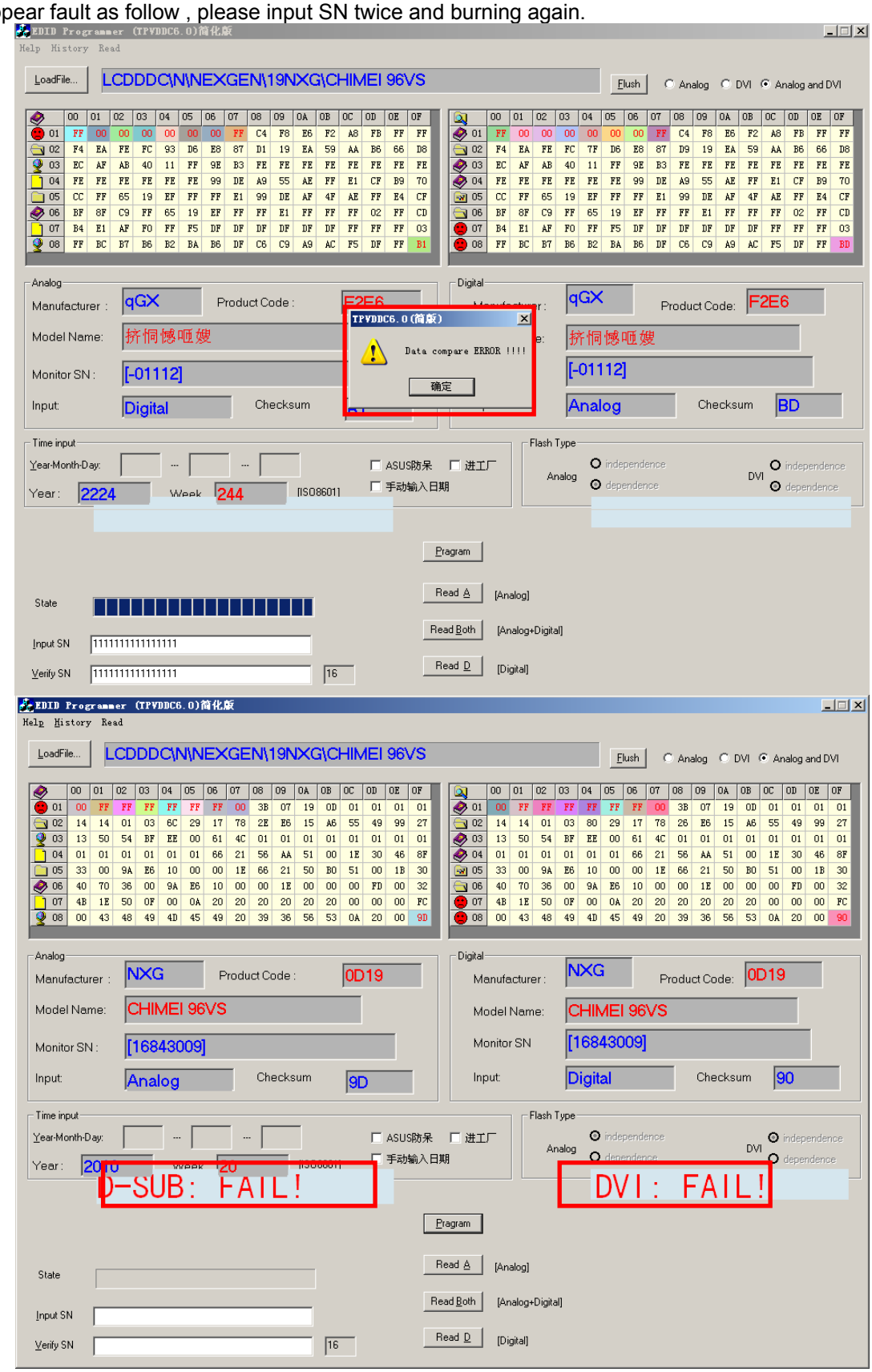


4.Input same SN twice and date. Click “Pragram” to burn. When appear “pass” as follow picture that burning is successful.

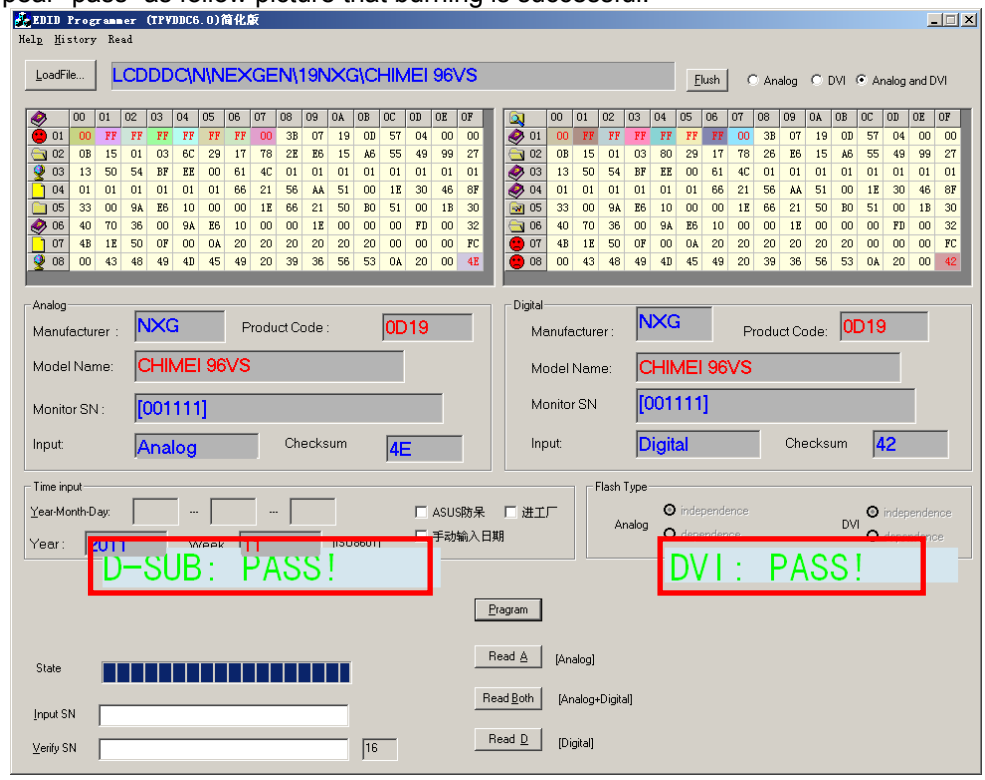


5. Click “program”,

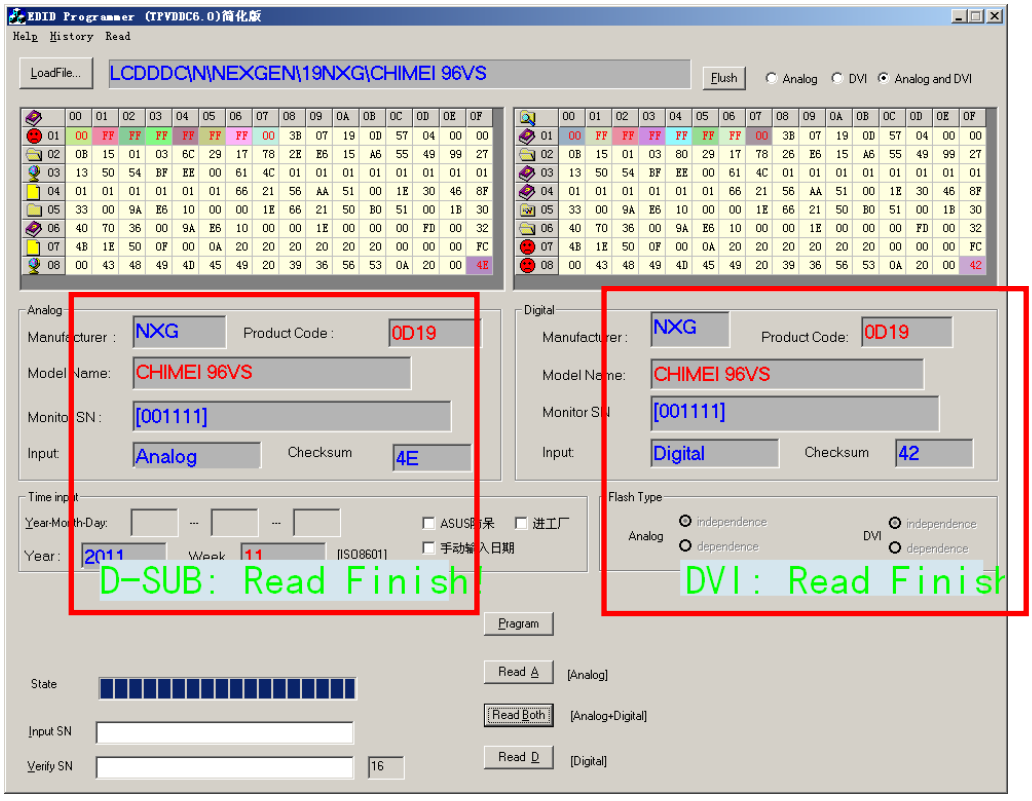
Note: . Appear fault as follow , please input SN twice and burning again.



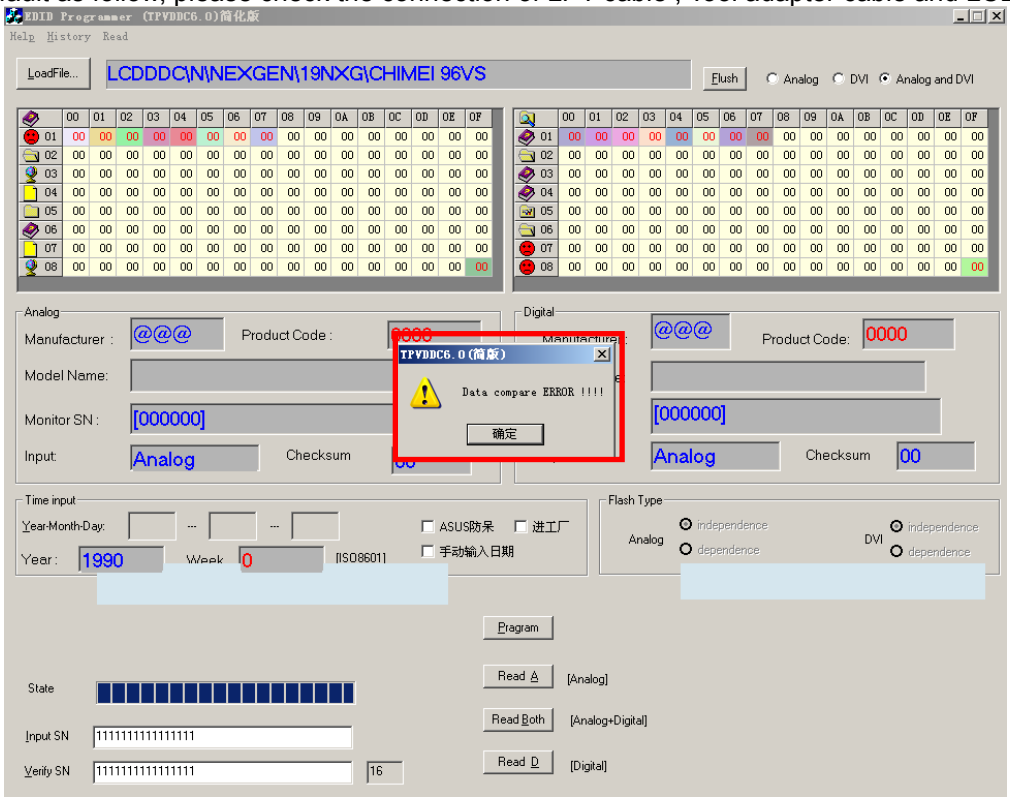
When appear “pass” as follow picture that burning is successful.



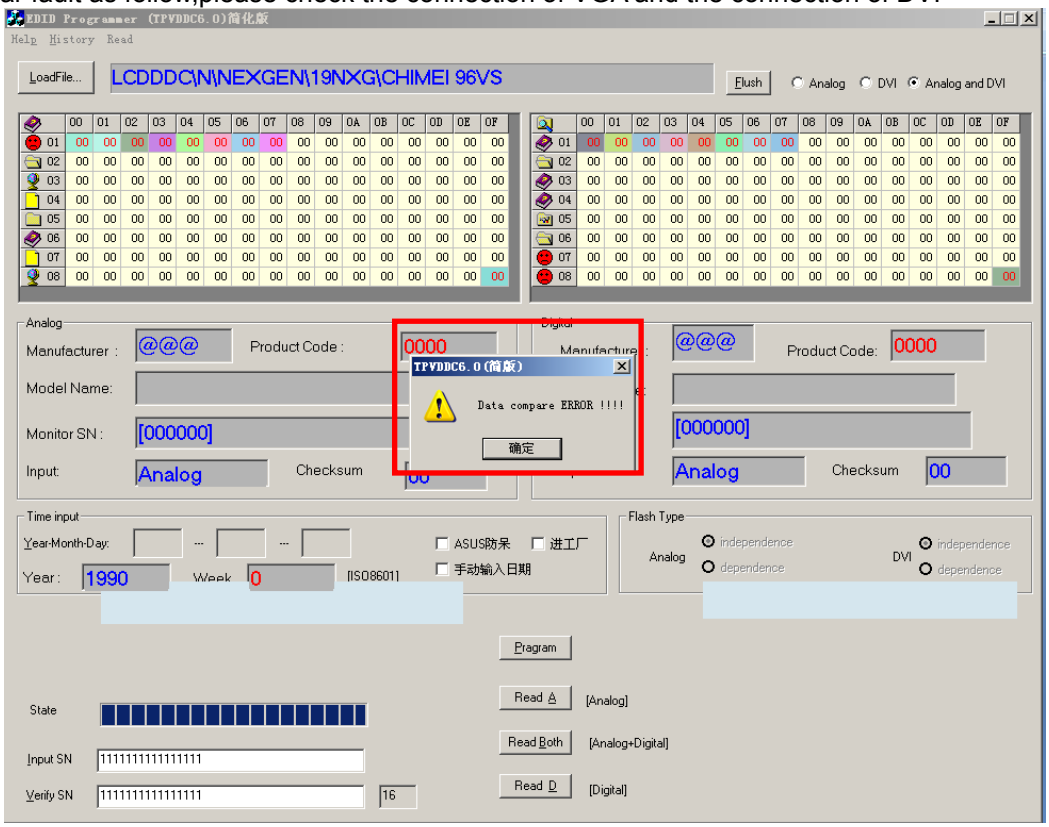
Click “Read both” show as follow picuture..If read SN and model name are same as before inputing as before that burning is successful.



Appear fault as follow, please check the connection of LPT cable , Tool adapter cable and LCD power.



Appear fault as follow,please check the connection of VGA and the connection of DVI



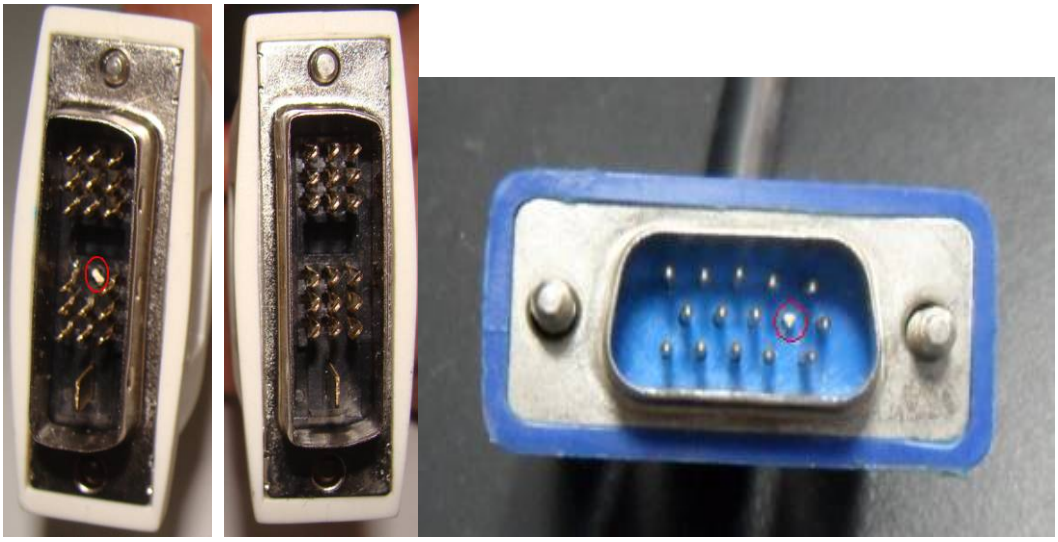
Note：

If the burn software is unsuccessfulll, appear fault：

1. For VGA,the resolution will be not the best achieve.
2. For DVI,No picture，no sound.

If program failed, in VGA mode, you can’t use the optimal resolution.

When Read is OK, program is NG, pls do take following action:
1. For VGA,cut off the 9th pin (connect the monitor).
2. For DVI, cut off the 14th pin (the shortest pin, power supply).
3. Connect the EEPROM WP pin to ground.



10. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM. Channel setting

A. Reference to chroma 7120 user guide

B. Use " **SC**" key and " **NEXT**" key to modify x, y, Y value and use "**ID**" key to modify the TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. you want

A. MEM.CHANNEL 3 (6500K color):

6500K color temp. parameter is x = 313 ±30, y = 329 ±30, Y = 200 cd/m^2

B. MEM.CHANNEL 4 (7300K color):

7300K color temp. parameter is x = 302 ±30, y = 318 ±30, Y = 180 cd/m^2,

C. MEM.CHANNEL 9 (9300K color):

9300K color temp. parameter is x = 283 ±30, y = 297 ±30, Y = 170 cd/m^2

D. MEM.CHANNEL 10 (SRGB color):

SRGB color temp. parameter is x = 313 ±30, y = 329 ±30, Y = 180 cd/m^2

3. Enter into the factory mode:

Turn off the power, then press ∧ key,∨ key and press the Power button at the same time, the next, press the Menu button, You will enter into the factory mode.

4. Bias adjustment:

Set the **Contrast** to 50; Adjust the **Brightness** to 90.

5. Gain adjustment:

Move cursor to "-F-" and press MENU key

A. Adjust Warm (6500K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ±30, y = 329 ±30, Y = 200 cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

B. Adjust Normal (7300K) color-temperature

1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM. Channel to Channel 4 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 302 ±30, y = 318 ±30, Y = 180 cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

C. Adjust Cool (9300K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)

2. Switch the MEM.channel to Channel 9(with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 283 ±30, y = 297 ±30, Y = 170 cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

D. Adjust SRGB color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 10(with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ±30, y = 329 ±30, Y = 180 cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

E. Turn the Power-button off to quit from factory mode.

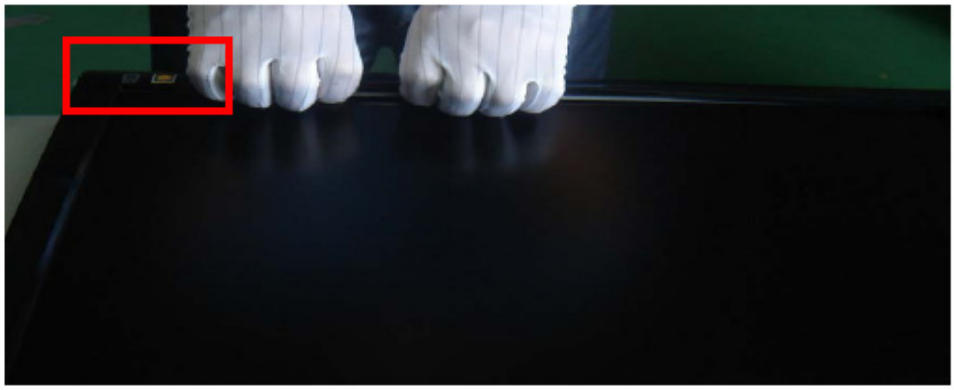
11.Mechanical Instructions

1.Put the monitor on the EPE pad.

2.Lay down the monitor, then use cross screwdriver or the expert tools leave off the stand while press the Push area of the back cover.

3.Overturn the monitor and the top towards to us.

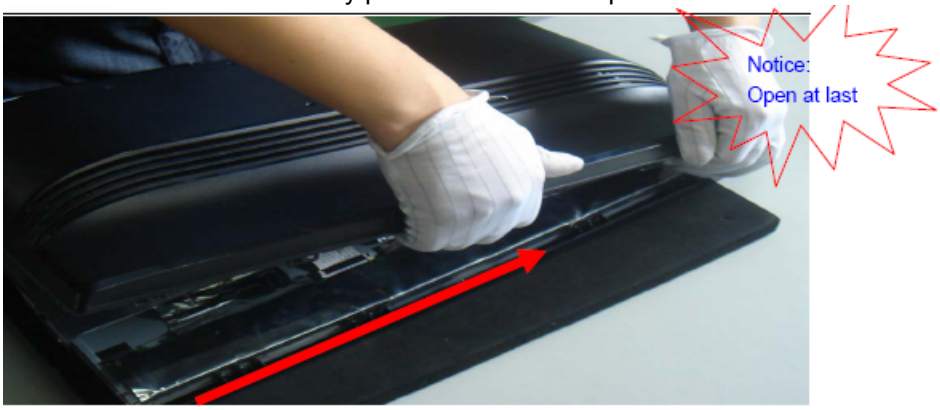
4.Take apart the front frame with hands on the label area.

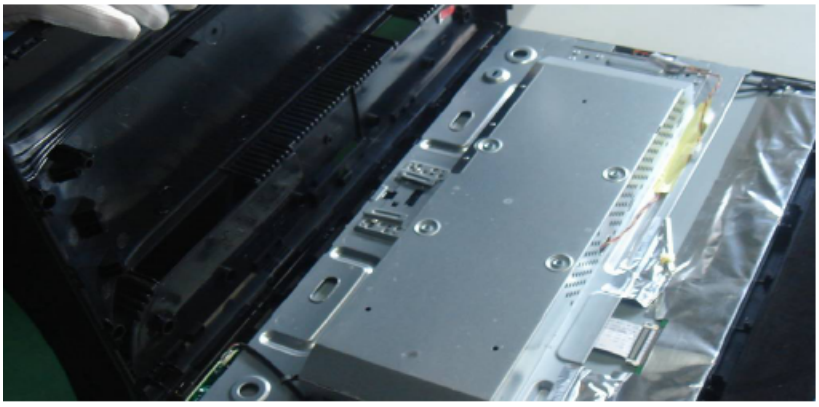


5.As the center of one side of USB connector, take apart 3 sides and stop. Attention: Do not break off the key pc side, or pull the front frame forcibly, to avoid the keypad peel off.

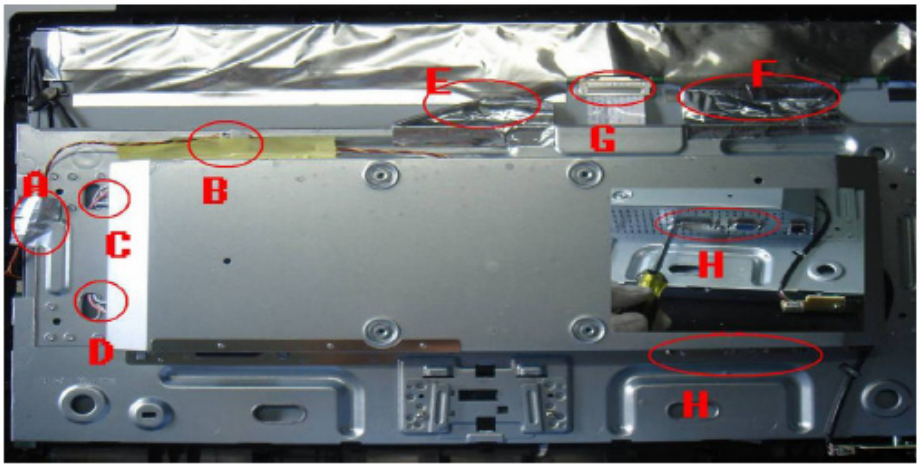
6.Overturn the monitor, on the USB connector area, one hand press the Panel, and use the other to undrawn the back cover.

7.Make the notice that the front frame of the key pc side should be separated at last.



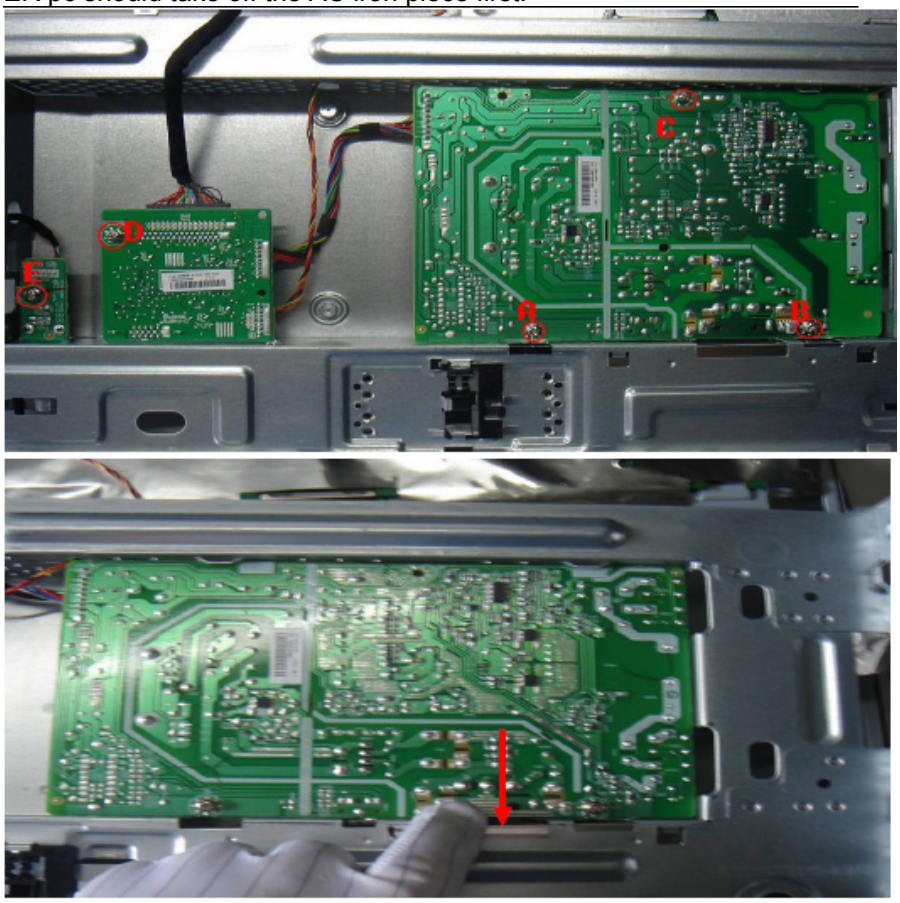


8. In turn to take apart the key pc connect PIN (A&B), lamp line (C&D), peel off the aluminum foil (E&F), draw off the FFC pin (G), if there is defect with main pc, need leave of f the six-angle screw (H).

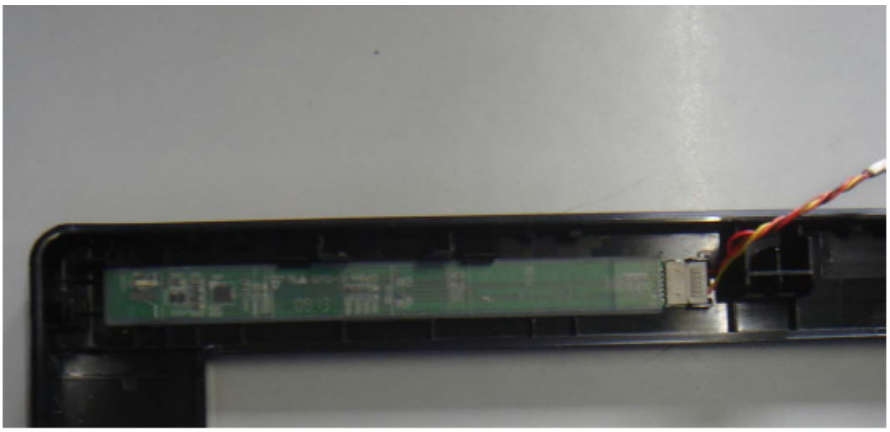


9.Withdraw the front frame from the Panel side. Use screwdriver to take off the screw which used to fix the iron frame and Panel, and then take apart them.

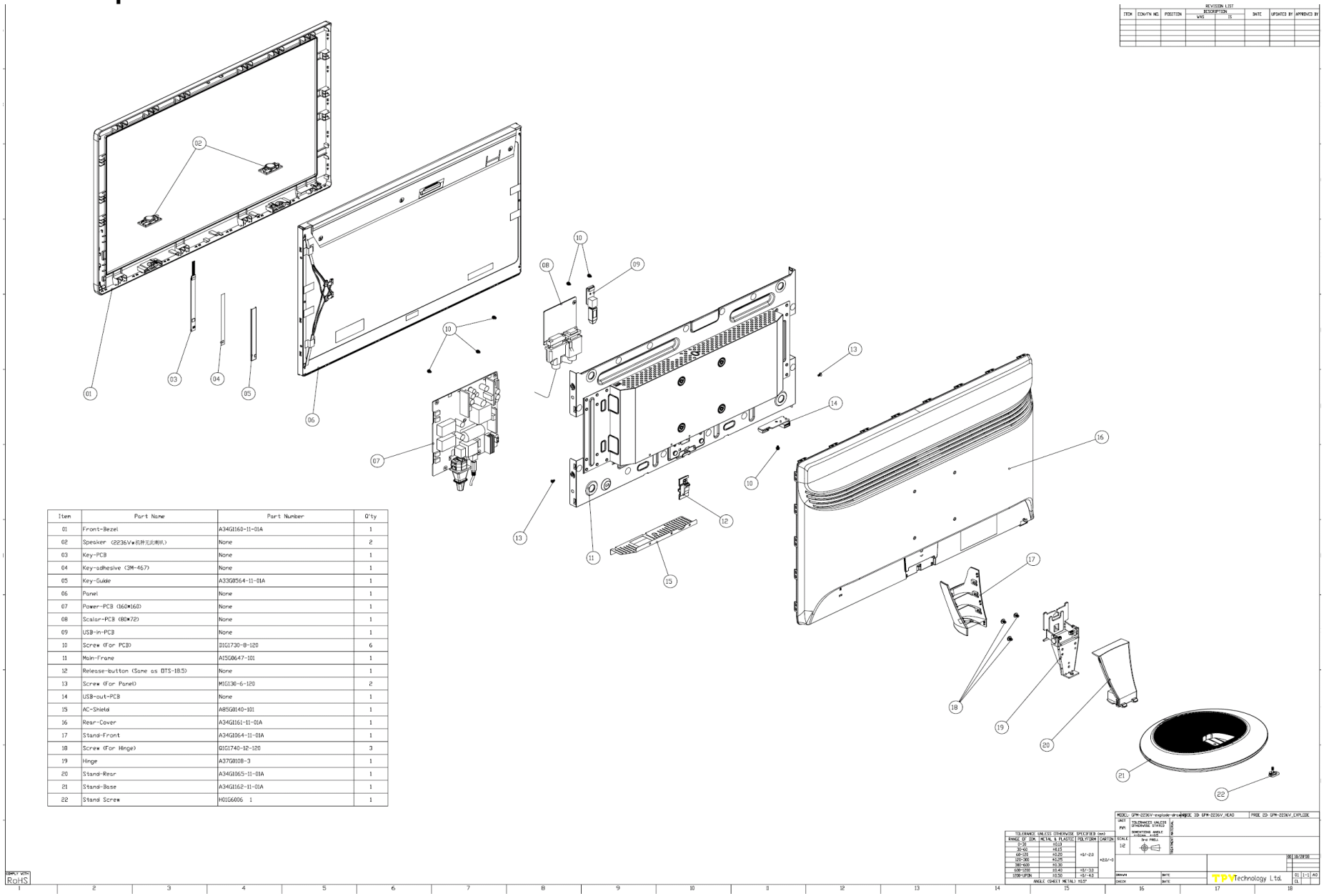
10. According to the different defective area, take off the screws ABCDE to get the relevant part to maintain. Before take apart the POWER pc should take off the AC iron piece first.



11. Use little screwdriver to peel off the key pc from the front frame when need maintain it.



12. Monitor Exploded View



Item	Part Name	Part Number	Q'ty
01	Front-Bezel	A34G0160-11-01A	1
02	Speaker (2236Vw机种无扬声器)	None	2
03	Key-PCB	None	1
04	Key-adhesive (3M-467)	None	1
05	Key-Guide	A33G0064-11-01A	1
06	Panel	None	1
07	Power-PCB (160*160)	None	1
08	Scalar-PCB (80*72)	None	1
09	USB-in-PCB	None	1
10	Screw (For PCB)	DIG1730-8-120	6
11	Main-Frame	A15G0647-101	1
12	Release-button (Same as DTS-185)	None	1
13	Screw (For Panel)	M1G130-6-120	2
14	USB-out-PCB	None	1
15	AC-Shield	A85G0140-101	1
16	Rear-Cover	A34G0161-11-01A	1
17	Stand-Front	A34G0164-11-01A	1
18	Screw (For Hinge)	G1G1740-12-120	3
19	Hinge	A37G010B-3	1
20	Stand-Rear	A34G0165-11-01A	1
21	Stand-Base	A34G0162-11-01A	1
22	Stand Screw	H01G6006 1	1

13. BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice. Please go to http://cs.tpv.com.cn/hello1.asp for the latest information.

TIAASL2E6WA1BNE

Location	Part NO.	Description	Remark
	052G 1208 A	AL FOIL	
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm	
	052G 2191 A	PAPER TAPE	
HDCP-L	070GHDCP500HDC	HDCP CODE	
E08907	089G179J30NA05	FFC CABLE 30 206 1.0	2nd source
E09503	095G8014 7DW01	HARNESS 7P(2008)--6P(1005) 470	
E09503	095G8014 7TW01	HARNESS 7P(2008)-6P(1005) 470MM	2nd source
E09503	095G8014 7WW01	HARNESS 7P(2008)-6P(1005) 470	2nd source
E09504	095G8022 6TE05	HARNESS 6P(CI1406)-6P(1253) 400	
E09504	095G8022 6WE05	HARNESS 6P(CI1406)-6P(1253) 400MM	2nd source
	0D1G1730 8120	SCREW 3x8	
	0M1G 130 6120	SCREW M3X6	
	705GH934025	21.5"LCD STAND-BASE ASS'Y	
E750	750GBU215H1B2HN000	LCD M215HW01 VBTB WH AUO	
	A15G0647702	MAIN_FRAME	
	A34G1160AEDC1B0130	BEZEL	
	A34G1161AEDA6S0100	REAR COVER21.5"	
	A85G0140101MCM	AC Shield	
	ADPC91503HD4	ADAPTER G3189-P02-LED-X-2-100525	
	CBPCBA8A1H7	CONVERSION G3329-1-2-X-2-111103	
	H12G6200 10	RUBBER PAD	
	H40G 45762413B	P/N LABEL FOR BASE	
	H40G 58161569A	USB LABEL	
	H40G 58261531A	WIN7 EPA LABEL	
	H40G 58261537B	e936Vw POP LABEL	
	H44GB005102	EPS	
	H44GB005202	EPS	
	H44GB005615 6C	e2236Vw CARTON	
	H45G 77 6	PE PACKING	
	H45G 87 18 12	EPE_COVER_MONITOR	
	H70G200961532E	e2236Vw CD MANUAL	
	KEPCBHA8	KEY G3371-2-X-X-1-110616	
	LNPCAB541AHD1	CONVERTER G4137-P01-X-4-100826	
	Q12G6600 6	FOOT	
	Q40G 58162435A	LABEL	
	Q45G 76 28 H A	P.E. BAGx320x210x0.04	
	Q45G 76 28V13 A	PE BAG	
	Q50G 4 10	TIE (Y1900221)	
	Q52G 1185 99	BIG CARTON TAPE FOR AOC	
	Q52G6019 14	TAPE	
E08907	S89G179T30NA05	FFC CABLE 30P 205mm P1.0MM	
	USB9HA1	USB G2663-2-X-X-1-090313	
	USBAHA5	USB G3501-2-X-X-1-090313	
	0Q1G1740 12120	SCREW	
	A34G1064AED 1S0100	Stand-Front	
	A34G1065ABJ 1S0100	Stand-Back	
	A34G1162AED 2S0130	BASE	
	A37G0108 3	HINGE 22	
	H01G6006 1	Screw	
	756GHACB A1105	MCU ASS'Y	

U402	056G1133137	IC MX25L2026MI-12G SOP-8	2nd source
U402	056G2233501	FLASH MX25L2026DM1I-12G 2Mb SOP-8	
SMTCA-U402	100GAMAI036W11	AOC_e2236vw_AUO	
	808GE2236VWAUS	E2236VW Australia ASS'Y	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	
E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G412A15NHL3	AC POWER CORD 1500mm	
E08901	089G412A15NIS3	AC POWER CORD 1500mm	2nd source
	H40G 001624 1A	CARTON LABEL BARCODE 1	
	H40G 22N61534A	ID LABEL	
	H40G000261587A	AP BOXSTIKER LABEL	
	H41G780061558C	Australia warranty	
	808GE2236VWHKG	E2236VW HongKong ASS'Y	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	
E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G410A15N HL	AC POWER CORD 1500	
E08901	089G410A15N IS	AC POWER CORD 1500	2nd source
	H40G 001624 1A	CARTON LABEL BARCODE 1	
	H40G 22N61534A	ID LABEL	
	H40G000261587A	AP BOXSTIKER LABEL	
	H41G780961529A	AP WARRANTY booklist	
	808GE2236VWINA	E2236VW Indonesia ASS'Y	
	026G 800504 H	BAR CODE LABEL	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	
E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G404A15N HL	AC POWER CORD 1500mm	
E08901	089G404A15N IS	AC POWER CORD 1500	2nd source
	H40G 22N61556A	e2236Vw ID LABEL-Indonesia	
	H40G 58361596A	e2236Vw INA CARTON LABEL B	
	H40G000261587A	AP BOXSTIKER LABEL	
	H41G1800615 1B	manual--Indonesia	
	H41G780061583A	warranty card--Indonesia	
	808GE2236VWPHI	E2236VW Philippines ASS'Y	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	
E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	

E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G402A15N HL	AC POWER CORD 1500mm	
E08901	089G402A15N IS	AC POWER CORD 1500MM	2nd source
	H40G 001624 1A	CARTON LABEL BARCODE 1	
	H40G 22N61534A	ID LABEL	
	H40G000261587A	AP BOXSTIKER LABEL	
	H41G780961529A	AP WARRANTY booklist	
	808GE2236VWTHA	E2236VW Thailand ASS'Y	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	
E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G402A15N HL	AC POWER CORD 1500mm	
E08901	089G402A15N IS	AC POWER CORD 1500MM	2nd source
	H40G 001624 1A	CARTON LABEL BARCODE 1	
	H40G 22N61534A	ID LABEL	
	H40G000261587A	AP BOXSTIKER LABEL	
	H41G780961530A	AOC warranty card--Thailand	
	808GE2236VWTPE	E2236VW taiwan ASS'Y	
	026G 800504 H	BAR CODE LABEL	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	
E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G420A15N IS	AC POWER CORD 1500MM TAIWAN	
	H40G 22N61546A	ID LABEL	
	H40G 58261572A	AOC TW WARRANTY LABEL	
	H40G 58261573B	carton label	
	H40G000261587A	AP BOXSTIKER LABEL	
	H41G780961540A	TW WARRANTY BOOKLIST	
	808GE2236VWUAE	e2236Vw United Arab Emirates ASS'Y	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	
E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G404A15N HL	AC POWER CORD 1500mm	
E08901	089G404A15N IS	AC POWER CORD 1500	2nd source
	H40G 001624 1A	CARTON LABEL BARCODE 1	
	H40G 22N61534A	ID LABEL	
	H41G780961529A	AP WARRANTY booklist	
	808GE2236VWVIE	E2236VW Vietnam ASS'Y	
E08905	089G 175 8A C	USB CABLE 1800MM without PE bag	

E08905	089G 175 8A G	USB CABLE 1800MM without PE bag	2nd source
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G404A15N HL	AC POWER CORD 1500mm	
E08901	089G404A15N IS	AC POWER CORD 1500	2nd source
	H40G 001624 1A	CARTON LABEL BARCODE 1	
	H40G 22N61534A	ID LABEL	
	H40G000261587A	AP BOXSTIKER LABEL	
	Q41G78D161522A	Vietnam warranty	
GND1	009G6005 1	GND TERMINAL	
GND2	009G6005 1	GND TERMINAL	
GND3	009G6005 1	GND TERMINAL	
CN903	033G380210B Y L	CONNECTOR 10P 2.0	
IC902	056G 139 3A	PC123Y22FZOF SHARP	
NR901	061G 58100 X	NTCR 10R 20% 5W(10D2-14 MCS)	
C904	063G107K2246S1	X2 CAP 0.22UF K 275VAC	
C902	065G306K3312B3	Y1 CAP 330PF K 250VAC CD	
C903	065G306K3312B3	Y1 CAP 330PF K 250VAC CD	
C900	065G306M1022BP	CAP Y1 1NF 20% 250V Y5U	
C918	067G 3151007KV	CAP 105C 10UF M 50V	
C907A	067G 40Z10115L	EC 100uF 450V M 18*35.5mm	
C912	067G215D6814LV	LOW ESR EC 680uF 25V M 10*20mm	
C914	067G215S4713KV	EC 470UF 20% 16V 10X13	
L901	073G 174 65 H2	LINE FILTER 30mH MIN	
L902	073G 253 91 H	IND CHOKE 3.5uH+-10% DADONG	
L903	073G 253 91 H	IND CHOKE 3.5uH+-10% DADONG	
T901	080GL19P 1 N	X'FMR 1.1mH 10% 20uH MAX YUVA-1208	
CN901	087G 501 32 DL	AC SOCKET DIP 3PIN+2PIN GROUND	
D903	093G 60335	DIODE SR515 5A/150V DO-201AD	
D905	093G 60335	DIODE SR515 5A/150V DO-201AD	
D904	093G 60923	DIODE SR504-30 DO-201AD	
D906	093G 60923	DIODE SR504-30 DO-201AD	
CN902	095G 825 9DE08	HARNESS 9P-9P 200MM	
CN902	095G 825 9XE08	HARNESS 9P-9P 200MM	2nd source
E09502	095G801410DE06	HARNESS 10P(1253)-10P(PLUG) 310MM	2nd source
E09502	095G801410TE06	HARNESS 10P(1253)-10P(PLUG) 310MM	
	705GH956024	IC901 ASS'Y	
	709G3189 HM001	COMSUPTIVE ASS'Y	
	H40G 45762429A	LABEL	
BD901	093G 50460514	BRIDGE KBP306G-05 3A 800V KBP	
CN402	033G3802 7B Y L	CONNECTOR 7P 2.0	
CN701	033G3802 9B Y L	CONN 2.0 9P	
CN301	033G801930F CH JS	FFC CONN 1.0mm 30P R/A 34mm 6.3mm	
R708	061G152M33964L SY	RST MOFR 3.3 OHM +-5% 2WS SHANG YU	
CN101	088G 35315F CH	D-SUB CONN WITH SCREW 15P	
CN102	088G 35424F CH	DVI 24PIN CONN F ATTACHED SCREW	
X401	093G 2253B J	NXS14.31818AC32F-KAB10	
	709G3329 HM003	CONSUMPTIVE ASS'Y	
	H40G 45762429A	LABEL	
	A33G0564 2 1L0100	Key-Guide	
	H52G1201 1	3M DOUBLE FACE TAPE	
C802	067G 4151017LV	EC 100uF 20% 50V RZY 8*11.5	

C804	067G415L330 9L	EC 33UF 20% 100V 8*11.5	
	709G3823 HM001	COMSUPTIVE ASS'Y	
	H40G 45762429A	LABEL	
CN511	033G3802 5 BH L	CONNECTOR 5PIN	
CN512	088G 352 2 XH	USB CONN A TYPE 4P	
	709G2663 HM002	CONSUMPTIVE ASS'Y	
	715G2663 3	USB BOARD PCB	
CN501	033G3802 5B Y L	CONNECTOR 5P 2.0	
CN502	088G 351 2B XH	USB CONN B TYPE 4P	
E09508	095G8014 5DH09	HARNESS 5P(PH)-5P(PLUG) 180MM	
E09508	095G8014 5TH09	HARNESS 5P(PLUG)-5P(2501) 180MM	2nd source
E09508	095G8014 5WH09	HARNESS 5P(PLUG)-5P(2501) 180MM	2nd source
	709G3501 HM001	CONSUMPTIVE ASS'Y	
IC901	056G 581 20	IC TOP255EN eSIP-7C	
	0M1G 930 8120	SCREW 3x8	
	Q11G0026 1	WIRE-CLIP	
HS1	Q90G6263 6	HEAT SINK	
	Q51G 6 4509	GLUE_RTV	
	Q55G 100625	TIN STICK_LOW ARGENTUM	
R623	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R628	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R917	061G06031001FT	RST CHIP 1K 1/10W 1%	
R913	061G06031002FT	RST CHIP 10K 1/10W 1%	
R912	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R916	061G0603471 JT	RST CHIPR 470OHM +-5% 1/10W TZAI YUAN	
R915	061G06039311FT	RST CHIPR 9.31k 1% 1/10W	
R923	061G0805103 JT	RST 0805 10K 5% 1/8W	
R903	061G08051102FT	RST CHIP 11K 1/8W 1%	
R924	061G0805689 JT	RST CHIPR 6.8 OHM +-5% 1/8W 0805	
R925	061G08058202FT	RST CHIPR 82K +-1% 1/8W TZAI YUAN	
R927	061G12060004JT	RST CHIPR 1206 MAX0R05 4A 1/4W TZAI YUAN	
R910	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R926	061G1206229 JT	RST CHIPR 2R2 +-5% 1/4W TZAI YUAN	
R909	061G1206300 JT	RST CHIPR 30 OHM +-5% 1/4W TZAI YUAN	
R908	061G1206300 JT	RST CHIPR 30 OHM +-5% 1/4W TZAI YUAN	
R907	061G1206300 JT	RST CHIPR 30 OHM +-5% 1/4W TZAI YUAN	
R906	061G1206300 JT	RST CHIPR 30 OHM +-5% 1/4W TZAI YUAN	
R905	061G1206300 JT	RST CHIPR 30 OHM +-5% 1/4W TZAI YUAN	
R904	061G1206300 JT	RST CHIPR 30 OHM +-5% 1/4W TZAI YUAN	
R920	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R921	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R922	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R900	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R901	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R902	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
C916	065G060310312K F	NO-SUGGEST 0603 10NF K 16V X7R	
C905	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C915	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C917	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C901	065G080582031J F	CAP CHIP 0805 82PF J 50V NPO	
C910	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C911	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C919	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C920	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
	709G3189 HS001	COMSUPTIVE ASS'Y	
	Q55G 100625	TIN STICK_LOW ARGENTUM	

C419	067G 3151007KB	EC 10uF M 50V 5*11mm EG	
C707	067G 3151014KB	EC LOW ESR 100UF M 25V 6.3*11mm EG	
C704	067G 3151014KB	EC LOW ESR 100UF M 25V 6.3*11mm EG	
C305	067G 3151014KB	EC LOW ESR 100UF M 25V 6.3*11mm EG	
	709G3329 HA003	CONSUMPTIVE ASS'Y	
U401	056G 562F31	SCALER TSUMU58PWHL-LF-1 100PIN FQFP	
U703	056G 563 31	IC AZ1117D-1.8-E1	
U701	056G 585 4A	AP1117E33L-13-77 1A 3.3V SOT-223	
U107	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U106	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U105	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U104	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U103	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U101	056G1133 34	EEPROM M24C02-WMN6TP 2Kb SO-8	
U102	056G1133 34	EEPROM M24C02-WMN6TP 2Kb SO-8	
U402	056G1133137	IC MX25L2026MI-12G SOP-8	2nd source
U402	056G2233501	FLASH MX25L2026DM1I-12G 2Mb SOP-8	
Q401	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q302	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q701	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q405	057G 417526	SMALLTRAN MMBT3906 -0.2A -40V SOT-23	
Q301	057G 763 1	MOSFET A03401 4.2A 30V SOT-23	
R414	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R418	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R419	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R423	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R434	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R452	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R134	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R132	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R131	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R130	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R129	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R128	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R127	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R126	061G0402100 JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R119	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R409	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R415	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R416	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R417	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R422	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R424	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R428	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R706	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R118	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R117	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R115	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R114	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R113	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R111	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R109	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R105	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R101	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R705	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R404	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	

R402	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R104	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R103	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R703	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R702	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R436	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R412	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R407	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R308	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R305	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R135	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R133	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R120	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R421	061G0402104 JF	RST CHIPR 100KOHM +-5% 1/16W FENGHUA	
R107	061G0402222 JF	RST CHIPR 2.2KOHM +-5% 1/16W FENGHUA	
R106	061G0402222 JF	RST CHIPR 2.2KOHM +-5% 1/16W FENGHUA	
R304	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	
R406	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	
R704	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	
R401	061G04023900FF	RST CHIPR 390 OHM +-1% 1/16W FENGHUA	
R432	061G04023901FF	RST CHIPR 3.9KOHM +-1% 1/16W FENGHUA	
R433	061G04023901FF	RST CHIPR 3.9KOHM +-1% 1/16W FENGHUA	
R110	061G0402471 JF	RST CHIPR 470 OHM 5% 1/16W FENGHUA	
R303	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R138	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R137	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R136	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R125	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R124	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R123	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R306	061G0402563 JF	RST CHIPR 56KOHM 1/16W FENGHUA	
R139	061G0402682 JF	RST CHIPR 6.8KOHM +-5% 1/16W FENGHUA	
R116	061G0402750 JF	RST CHIPR 75 OHM +-5% 1/16W FENGHUA	
R112	061G0402750 JF	RST CHIPR 75 OHM +-5% 1/16W FENGHUA	
R108	061G0402750 JF	RST CHIPR 75 OHM +-5% 1/16W FENGHUA	
R102	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R405	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R461	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R456	061G0603220 JF	ST CHIPR 22 OHM +-5% 1/10W FENGHUA	
R301	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	
R302	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	
C107	065G040210232K Y	CAP CHIP 0402 1N 50V X7R +/-10%	
C121	065G040210232K Y	CAP CHIP 0402 1N 50V X7R +/-10%	
C122	065G040210232K Y	CAP CHIP 0402 1N 50V X7R +/-10%	
C413	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C414	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C415	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C416	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C417	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C422	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C432	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C701	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C702	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C705	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C708	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C709	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	

C712	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C713	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C115	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C124	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C301	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C304	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C403	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C404	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C405	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C406	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C407	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C408	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C409	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C410	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C411	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C412	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C436	065G0402105A5K Y	NO-SUGGEST CAP 0402 1UF 10% 10V X5R	
C103	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	
C104	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	
C116	065G040222415K Y	CAP CHIP 0402 220nF 16V X5R	
C117	065G040222415K Y	CAP CHIP 0402 220nF 16V X5R	
C302	065G040222415K Y	CAP CHIP 0402 220nF 16V X5R	
C401	065G040222415K Y	CAP CHIP 0402 220nF 16V X5R	
C421	065G040247031J Y	CAP 0402 47PF 5% 50V NP0	
C420	065G040247031J Y	CAP 0402 47PF 5% 50V NP0	
C114	065G040247312K Y	CAP 0402 47NF 10% 16V X7R	
C111	065G040247312K Y	CAP 0402 47NF 10% 16V X7R	
C110	065G040247312K Y	CAP 0402 47NF 10% 16V X7R	
C108	065G040247312K Y	CAP 0402 47NF 10% 16V X7R	
C106	065G040247312K Y	CAP 0402 47NF 10% 16V X7R	
C102	065G040247312K Y	CAP 0402 47NF 10% 16V X7R	
C113	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	
C109	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	
C105	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	
C303	065G060310522K T	CAP CHIP 0603 1uF K 25V X7R	
C402	065G0805475A5K Y	CAP CHIP 0805 4.7UF K 10V X5R	
FB301	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
FB410	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	
FB404	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	
FB402	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	
FB401	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	
FB110	071G 59G301 EM	CHIP BEAD 0603 300R 25% 200mA	
FB105	071G 59G301 EM	CHIP BEAD 0603 300R 25% 200mA	
FB104	071G 59G301 EM	CHIP BEAD 0603 300R 25% 200mA	
FB103	071G 59K190 M	CHIP BEAD 0603 19R/500mA	
FB102	071G 59K190 M	CHIP BEAD 0603 19R/500mA	
FB101	071G 59K190 M	CHIP BEAD 0603 19R/500mA	
D104	093G 64 42 L	DIODE LBAV70LT1G SOT-23 LRC	
D108	093G 64 42 L	DIODE LBAV70LT1G SOT-23 LRC	
ZD104	093G 39GA01 T	RLZ5.6B	
	709G3329 HS003	CONSUMPTIVE ASS'Y	
	715G3329 1 2	MAIN BOARD PCB	
	H52G1701 1	MESH PRINTTING_PAPER	
CN001	033G8034 6H H L1	CONN 1.0mm 6P R/A - -	
U001	056G 669 10	TOUCH KEY CG7246AMT QFN-16(COL)	
R012	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	

R009	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R008	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R001	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R002	061G0603101 JT	RST CHIP 100R 1/10W 5% TZAI YUAN	
R007	061G0603561 JT	RST CHIPR 560OHM +-5% 1/10W TZAI YUAN	
R006	061G0603561 JT	RST CHIPR 560OHM +-5% 1/10W TZAI YUAN	
R005	061G0603561 JT	RST CHIPR 560OHM +-5% 1/10W TZAI YUAN	
R004	061G0603561 JT	RST CHIPR 560OHM +-5% 1/10W TZAI YUAN	
C001	065G060310231J Y	CHIP 0603 1000pF 50V NPO	
C002	065G0603225A5K A	CAP 0603 2.2UF K 10V X5R	
LED001	081G15BY 2 GP	CHIP LED blue/yellow GPTD12048BOC1-A	
ZD005	093G 39S 34 T	UDZSNP5.6B ROHM	
ZD004	093G 39S 34 T	UDZSNP5.6B ROHM	
	715G3371 2	KEY BOARD PCB	
CN805	033G8032 6F HR	CONNECTOR 6P 1.25	
CN801	033G803210F HR	CONNECTOR 10P 1.25	
IC801	056G 379185	LED DRIVER TA9690GN-A1-0-TR SOP-24	
Q801	057G 763 92	FET P8008HV 4A/80V SOP-8	
R823	061G0603000 FF	RST CHIPR MAX0R01 1/10W FENGHUA	
R857	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R855	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R849	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R848	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R844	061G0603100 JF	RST CHIPR 10 OHM 5% 1/10W FENGHUA	
R814	061G0603100 JF	RST CHIPR 10 OHM 5% 1/10W FENGHUA	
R807	061G0603100 JF	RST CHIPR 10 OHM 5% 1/10W FENGHUA	
R812	061G0603101 JT	RST CHIP 100R 1/10W 5% TZAI YUAN	
R810	061G0603102 JT	RST CHIP 1K 1/10W 5% TZAI YUAN	
R813	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R806	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R809	061G0603104 JT	RST CHIP 100K 1/10W 5% TZAI YUAN	
R829	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R828	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R827	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R826	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R830	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R831	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R832	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R833	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R805	061G0603124 JT	RST CHIP 120K 1/10W 5% TZAI YUAN	
R804	061G06032002FT	RST CHIP 20K 1/10W 1%	
R824	061G06033302FT	RST CHIP 33K 1/10W 1%	
R822	061G0805105 JT	RST CHIP 1M 1/8W 5% TZAI YUAN	
R825	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	
R801	061G12061507FT	RST CHIPR 0.15 OHM +-1% 1/4W	
R847	061G1206308 JF	RST CHIPR 0.3 OHM +-5% 1/4W FENGHUA	
R846	061G1206308 JF	RST CHIPR 0.3 OHM +-5% 1/4W FENGHUA	
C816	065G060310232K F	CAP CHIP 0603 1NF K 50V X7R	
C805	065G060347412K Y	CAP CHIP 0.47uF 16V +/-10% X7R	
C810	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C803	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C801	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C807	065G080522525K T	CAP CHIP 0805 2.2uF K 25V X5R	
C806	065G080522525K T	CAP CHIP 0805 2.2uF K 25V X5R	
L801	073G253S 90 X	SMD CHOKE 22uH 3A HF	
ZD801	093G 60S907 T	SCHOTTKY B3100B 3A 100V SMB	

	715G4137P01000004S	CONVERTER BOARD PCB	
C503	065G060310432K A	CAP 0603 100NF 10% 50V X7R	
C501	065G060350931C Y	CAP CHIP 0603 5P 50V NPO +/- 0.25PF	
C502	065G060350931C Y	CAP CHIP 0603 5P 50V NPO +/- 0.25PF	
FB501	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
	715G3501 3	USB BOARD PCB	
CN901	006G 31500	EYELET	
IC903	056G 158 10 T	LDO IC AZ431AZ-AE1 TO-92 150MA 40V TO-92	
Q901	057G 530503 T	2SD1207T	
R919	061G152M10452T SY	RST MOFR 100KOHM +-5% 2WS FUTABA	
R918	061G152M25152T SY	RST MOF 250R 5% 2W	
C906	065G 2K152 2T6921	CAP CER 1500pF K 2KV Y5P	
C913	067G 2046812KT	CS CAP 680uF 10V 8*11 mm	
C908	067G 2154707NT	KY50VB47M-TP5 6.3*11	
F901	084G 55 5	FUSE 2.5A 250V	
F902	084G 56 4W	FUSE 4A 250V	
ZD902	093G 3916752T	MTZJ T-72 16B	
ZD901	093G 39A0852T	GDZJ18B	
D902	093G 6026T52T	CTIFIER DIODE FR107	
D901	093G 6038T52T	FR103 AO	
J906	095G 90 23	JUMPER WIRE	
J905	095G 90 23	JUMPER WIRE	
J904	095G 90 23	JUMPER WIRE	
J903	095G 90 23	JUMPER WIRE	
J902	095G 90 23	JUMPER WIRE	
J900	095G 90 23	JUMPER WIRE	
J616	095G 90 23	JUMPER WIRE	
J615	095G 90 23	JUMPER WIRE	
J609	095G 90 23	JUMPER WIRE	
J608	095G 90 23	JUMPER WIRE	
J601	095G 90 23	JUMPER WIRE	
	709G3189 HA001	COMSUPTIVE ASS'Y	
	715G3189P02LED001S	ADAPTER BOARD PCB	